

Undergraduate Catalog

2000-2001



Towson University

Academic Calendar

See the *Schedule of Courses* for registration dates, times and information.

Fall Semester 2000

Classes begin	August 31 (R)
Change of Schedule period begins	August 31 (R)
Labor Day — No classes	September 4 (M)
Change of Schedule period ends. Last day to drop a course with no grade posted to academic record. Last day to add a course.	September 12 (T)
Last day to withdraw from first 7-week courses with a grade of W	September 15 (F)
Mid-semester and end of first 7-week courses	October 20 (F)
Second 7-week courses begin	October 23 (M)
Last day to withdraw from second 7-week courses with a grade of W	November 3 (F)
Last day to withdraw from full semester courses with a grade of W. Last day to change to or from Pass or Audit grading options.	November 9 (R)
Thanksgiving Holiday — No classes. Classes starting at 4 p.m. or later on Wednesday, November 22 will not be held.	November 23(R)-24(F)
Classes resume	November 27 (M)
Last day of classes	December 13 (W)
Final examinations begin (last Saturday classes meet December 9)	December 14 (R)
Last day of examinations and end of semester	December 20 (W)
Commencement	January 7 (SU) 1 p.m. and 5:30 p.m.

Minimester 2001

Minimester begins	January 2 (M)
Minimester Change of Schedule period	January 2-3 (M-T)
Martin Luther King Day — No classes	January 15 (M)
Minimester ends	January 23 (M)
Spring Semester 2001	
Spring classes begin	January 29 (M)
Change of Schedule period begins	January 29 (M)
Change of Schedule period ends. Last day to drop a course with no grade posted to academic record. Last day to add a course.	February 5 (M)
Last day to withdraw from first 7-week courses with a grade of W	February 9 (F)
Mid-semester and end of first 7-week courses	March 16 (F)
Spring Break	March 19-25 (M-SU)
Classes resume and second 7-week courses begin	March 26 (M)
Last day to withdraw from full semester courses with a grade of W. Last day to change to or from Pass or Audit grading options. Last day to withdraw from second 7-week courses with a grade of W.	April 6 (F)
Last day of classes (last Saturday classes meet May 8)	May 15 (T)
Final examinations begin	May 16 (W)
Last day of examinations and end of semester	May 22 (T)
Commencement	May 23 (W) 10:30 a.m. and 4 p.m. May 24 (R) 10:30 a.m. and 4 p.m.

The purpose of this catalog is to provide information about the university and existing resources and services and current curriculum programs, rules, regulations and policies. Catalog information is thus to be used as an informational guide and practical resource. The university, however, in its discretion and from time to time, may amend the information contained in this catalog by modification, deletions or additions to it. Accordingly, the catalog and information it contains do not constitute a contract.

INCLEMENT WEATHER POLICY

In the event of inclement weather, announcements about schedule changes or cancellations will be broadcast over the following major radio and TV stations: WBAL (AM/1090), WCAO (AM/600), WLIF (FM/102), WTOP (FM/97.1), WBAL-TV (11), WJZ-TV (13), WMAR-TV (2) and WJLA-TV (7). Information will also be available by calling 410-830-NEWS or 410-830-2000.

Campus Directory

Academic Advising Center	410-830-2472
Accounting	410-830-2227
Administration and Finance Vice President	410-830-2151
ADMISSIONS	410-830-2113
African American Cultural Center	410-830-2641
Alumni Relations	410-830-2234
Art	410-830-2808
Asian Arts & Culture Center	410-830-2807
Athletics	410-830-2759
Auxiliary Services Administration	410-830-2530
Biological Sciences	410-830-3042
Black Student Union	410-830-3277
Burkshire at Towson University	410-324-8100
BURSAR	410-830-2100
Career Center	410-830-2233
Catering	410-830-3480
Center for Study of Campus Violence	410-830-2178
Chemistry	410-830-3058
Commuter Affairs	410-830-3307
Communication Sciences and Disorders	410-830-3099
Computer and Information Sciences	410-830-2633
Computing and Network Services (Help Desk)	410-830-5151
Counseling Center	410-830-2512
Dance	410-830-2760
Dean, College of Business and Economics	410-830-3342
Dean, College of Education	410-830-2571
Dean, College of Extended Programs	410-830-2283
Dean, College of Fine Arts	410-830-3288
Dean, College of Health Professions	410-830-2132
Dean, College of Liberal Arts	410-830-2128
Dean, College of Science and Mathematics	410-830-2121
Dean, College of Graduate Education and Research	410-830-2078
Dining Services	410-830-2302
Disability Support Services	410-830-2638
Early Childhood Education	410-830-2572
Economics	410-830-2959
Electronic Media and Film	410-830-3791
Elementary Education	410-830-2565
English	410-830-2871
ENROLLMENT SERVICES	410-830-2701
Event and Conference Services	410-830-2315
Facilities Rental	410-830-2315
Finance (Academic Program)	410-830-2465
Financial Aid	410-830-4236
Foundation, TU, Inc.	410-830-2040
Geography and Environmental Planning	410-830-2973
GRADUATE SCHOOL	410-830-2501
Graduation Office (Undergraduate)	410-830-2095
Health Center	410-830-2466
Health Science	410-830-2637
History	410-830-2923
Honors College	410-830-4677
Housing and Residence Life	410-830-2516
Human Resources	410-830-2162
INFORMATION	410-830-2000
Institutional Advancement Vice President	410-830-2358
Interdisciplinary Programs	410-830-2678
Interdisciplinary Studies	410-830-3600
International Student and Scholar Office	410-830-2421
International Studies	410-830-3510
Internships	410-830-2233
January Courses (Minimester)	410-830-2019
Kinesiology	410-830-2377
Management	410-830-2934
Marketing	410-830-3431
Maryland Writing Project	410-830-2432
Mass Communication and Communication Studies	410-830-3431

Mathematics	410-830-3091
Modern Languages	410-830-2883
Music	410-830-2839
Non-Traditional Undergraduate Programs	410-830-2471
Nursing	410-830-2067
Occupational Therapy	410-830-2762
Orientation and New Student Relations	410-830-2306
Parking (Auxiliary Services Business Office)	410-830-2284
Philosophy and Religious Studies	410-830-2755
Physics, Astronomy and Geosciences	410-830-3020
POLICE DEPT., UNIVERSITY	410-830-2133
Political Science	410-830-2958
Post Office	410-830-2260
President	410-830-2356
Provost	410-830-2125
Psychology	410-830-2284
Reading, Special Education and Instructional Technology	410-830-2576
Readmission Office (Undergraduate)	410-830-2007
Records Office	410-830-3240
Registration and Scheduling	410-830-2701
Secondary Education	410-830-2562
Social Sciences	410-830-3600
Sociology, Anthropology and Criminal Justice	410-830-2852
Speech-Language-Hearing Clinic	410-830-3095
Sports Information	410-830-2232
Student Academic Advisers (Peer Advisers)	410-830-3497
Student Academic Services	410-830-2330
Student Activities	410-830-3307
Student Employment	410-830-2730
Student Government Association	410-830-2711
Student Life Vice President	410-830-2055
Student Teaching (CASE)	410-830-2567
SUMMER COURSES	410-830-2019
Theatre Arts	410-830-2792
Ticket Office	410-830-2244
Tiger Club	410-830-3919
Tower Echoes	410-830-2280
TowerLight	410-830-2288
Undergraduate Advising	410-830-2472
University Relations	410-830-2230
University Store	410-830-BOOK
University Union	410-830-4636
Veterans Office	410-830-3094
Women's Center	410-830-2666
Women's Studies	410-830-2660
WMJF-TV	410-830-8788
WTMD-FM	410-830-8937
For all other departments, call	410-830-2000

An attendant will be available to answer your calls at 410-830-2000
from 8 a.m. to 10 p.m., Monday through Thursday
8 a.m. to 7 p.m., Friday
9 a.m. to 2 p.m., Saturday

Mailing Address:
Towson University
8000 York Road
Towson, MD 21252-0001

Web Address:
www.towson.edu

During the 2000-2001 academic year, several offices on campus will be relocating. The former Administration Building has been renamed Enrollment Services Center. The new Administration Building is located at 7720 York Road. Please call offices before you visit to confirm their location. We apologize for any inconvenience.

Access the TU *Undergraduate Catalog* online:
<http://www.towson.edu/tu/home/catalogs2.html>.



Dear Students:

Welcome to the Towson University campus and community. You have chosen an outstanding university to help you further your education.

Towson University is one of the most dynamic college communities in the country. Our dedicated faculty, broad range of academic programs, excellent physical facilities, state-of-the-art technology and metropolitan location offer an exceptional educational experience.

Towson has a long tradition of offering academic programs designed to meet students' personal and professional goals. Established in 1866, Towson was originally devoted exclusively to the preparation of teachers for the public schools in Maryland. Towson is now nationally recognized for its excellent programs in the arts and sciences, business, communications, fine arts, health professions, education and computer information systems.

The strength of TU in the liberal arts and sciences provides an important background essential to continuing professional growth, occupational achievement, intelligent citizenship and personal enrichment. At Towson University, teaching is central to everything we do. Our faculty members are among the country's leading educators, respected for their scholarship as well as for the expertise and broad experience they bring to the classroom.

We are proud of our students' achievements, whether in academics, art, athletics, music, student government, theater, or in voluntary service to the community. We are also proud of our many successful alumni who have pursued careers ranging from health care to business, from the performing arts to scientific research. By building and maintaining connections to our alumni, we remain committed to the lifelong success of our students.

This catalog will serve as your guide during your career at TU. It will introduce you to the programs and services that can make your time at Towson University enjoyable and productive. We wish you the best in all of your interests and endeavors in the years ahead.

Cordially,

A handwritten signature in black ink that reads "Hoke L. Smith". The script is fluid and cursive, with the first letters of each name being capitalized and prominent.

Hoke L. Smith
President

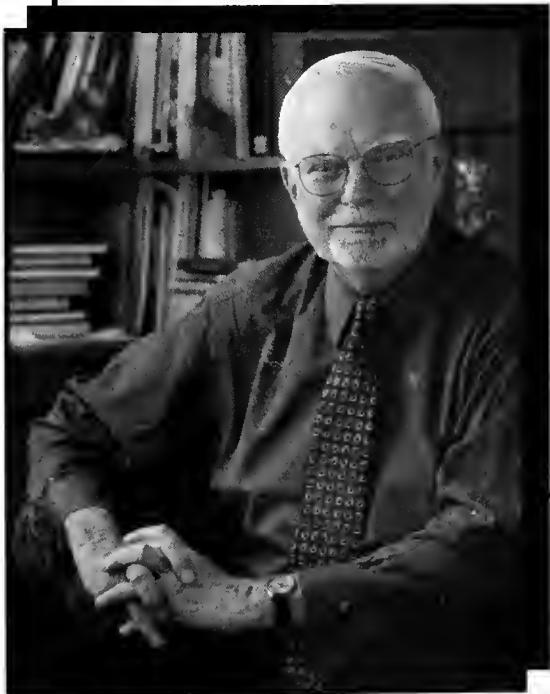




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The University

Towson University, the largest comprehensive university in the Baltimore area, is nationally recognized for its excellent programs in the arts and sciences, communications, business, health professions, education, fine arts, and computer information systems. The university is located in the suburban community of Towson, Maryland, just eight miles north of downtown Baltimore.

Its beautifully landscaped 328-acre setting provides a pleasant environment for study and a diverse campus life, as well as easy access to a wealth of university and community resources. Towson University enrolls and graduates more undergraduate students from the region than any other institution.

HISTORY

The institution known today as Towson University opened its doors in 1866 in downtown Baltimore as the Maryland State Normal School—the only institution devoted exclusively to the preparation of teachers for the public schools of Maryland. The first class consisted of 11 students.

In 1915 the school moved to Towson. By 1935, it established the Bachelor of Science degree in education and changed its name to Maryland State Teachers College at Towson. In 1946 it introduced an arts and sciences program, and in 1963 the institution expanded its offerings in the arts and sciences and became Towson State College.

Towson was granted university status on July 1, 1976, in recognition of its development into a comprehensive university. In 1988 Towson State University joined the University System of Maryland. On July 1, 1997, Towson State University became Towson University, a change that reflects its evolution from a state-supported to a state-assisted institution. As of January 2000, the university has graduated 85,724 students, 9,345 of them having received advanced degrees.

Enrollment for the 1999 fall semester was 11,536 full-time undergraduates, 2,445 part-time undergraduates, and 2,666 graduate students.

PHILOSOPHY OF LIBERAL ARTS EDUCATION AT TOWSON UNIVERSITY

Excellence at Towson University begins with its commitment to a sound liberal arts education for every student. All students explore the historical development and interrelationships among the four central areas of knowledge (fine arts, humanities, science and mathematics, and social and behavioral sciences), and how each of them addresses the world, investigates, reaches conclusions, and presents findings—extending the reaches of human knowledge. The university helps all students develop a range of intellectual skills that will continue to enrich and shape their lives long after their formal education has ended.

COLLEGES

Students choose their programs of study from the university's academic colleges: the College of Business and Economics, the College of Education, the College of Fine Arts and Communication, the College of Health Professions, the College of Liberal Arts, and the College of Science and Mathematics. All undergraduate programs within each college are fully described in the *Undergraduate Catalog*. For information on the College of Graduate Education and Research and the College of Extended Programs, see the descriptions in this catalog.

FACULTY

Towson University offers many opportunities for close student-faculty contact and promotes a supportive environment that encourages exploration and personal growth. A student-faculty ratio of approximately 16:1 allows students to interact closely with their professors. Eighty-six percent of the full-time faculty have earned the highest degree of academic preparation expected for their fields of specialization. On the merits of their expertise, the importance of their published works, and the honors they have received, many of the 469 full-time instructors are recognized nationally and internationally. Small classes and the tradition that all instructors—including most full professors—teach introductory courses help to enhance the strength of Towson's faculty—their dedication to excellent teaching.

GOVERNANCE

The Board of Regents of the University System of Maryland governs the university. Each of the 17 regents is appointed by the

governor. All university programs are maintained by the university president and by authority delegated to the provost and to the vice presidents for student life, institutional advancement, and administration and finance. The University Senate and its committees develop university policies and procedures, with the senate also serving in an advisory capacity to the university president. Voting senate members include 18 elected faculty members and one librarian, the president of the Faculty Association, and six student members, including the president of the Student Government Association. The university president and vice presidents are non-voting members. The College of Graduate Education and Research and the College of Extended Programs are administrative divisions supervised by a dean and governed by the University Senate. Each of the other six colleges is administered by an academic dean and governed by a council whose members include the dean, elected faculty and appointed students. The councils establish policies and procedures governing the programs of the academic departments they represent.

STUDENT GOVERNMENT ASSOCIATION

The Student Government Association (SGA) is the student governmental body authorized by the administration of the university. The SGA consists of an executive branch, composed of a president, vice president, and treasurer, and a legislative body called the Senate, composed of 14 students elected at large and one student appointed from the freshman class. The SGA Senate and its committees develop policies and procedures affecting students and student-run organizations.

ACCREDITATION/AFFILIATION

The Middle States Association of Colleges and Schools, the Maryland State Department of Education, the National Association of Schools of Music, the National Association of Schools of Dance, the Maryland State Board of Nursing, the National League for Nursing, the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), Education Standards Board of the Speech-Language-Hearing Association, the AACSB: The International Association for Management Education, the American Chemical Society, American Association for Health Education/National Council for the Accreditation of Teacher Education (AAHE/NCATE), the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the Computer Science Accreditation Commission of the Computing Sciences Accreditation Board.

The university is a member of the American Council on Education, the American Association of State Colleges and Universities and the Association of American Colleges.

ASSESSMENT

Assessment is a process by which educational effectiveness is determined by relating institutional and program missions and goals to actual student learning outcomes. It involves systematically collecting, analyzing and using information about student learning for the purpose of improving the quality of teaching and learning. Assessment is an ongoing process and a regular part of the teaching-learning cycle. Students, therefore, will participate in all phases of assessment activities as an integral part of their educational experience.

Believing that assessment is intrinsic to its well being, Towson University has established an assessment program, which is overseen by the University Assessment Council (UAC) and its three subcommittees: the Majors Assessment Resources Subcommittee (MARS), the General University Experiences Subcommittee (GUES), and the Student Quality of Life Assessment Subcommittee (SQLAS). This assessment program demonstrates the university's commitment to achieving and

maintaining excellence in its academic and extracurricular programs, as reflected in the impact of the total university experience upon its students.

PRIVACY RIGHTS OF PARENTS AND STUDENTS

Towson University is in compliance with Section 513 (Protection of rights and privacy of parents and students) and Section 514 (Protection of pupil rights) of Title V of the Family Educational and Privacy Act (Buckley Amendment), 1974. As such, it is the policy of the university (1) to permit students to inspect their academic records; (2) to limit disclosure to others of personally identifiable information from education records without students' prior written consent; and (3) to provide students the opportunity to seek correction of their education records where appropriate.

A more complete description of the policy and the records considered confidential may be found in Appendix D.

NON-DISCRIMINATION IN EDUCATION AND EMPLOYMENT

Towson University is an agency of the state of Maryland and a constituent institution of the University System of Maryland. Towson University complies with applicable state and federal laws and regulations prohibiting illegal discrimination.

ANNUAL SECURITY REPORT

Pursuant to Title II of Federal Public Law 101-542, The Crime Awareness and Campus Security Act of 1990, Towson University prepares and distributes to the university community an annual security report entitled *A Guide to Crime Awareness and Campus Security*. This report contains information about university policies regarding the reporting of crimes, access to campus facilities, alcohol and drugs, and sexual assault; it provides crime statistics for Towson University; and describes the police services and crime prevention programs that are available to the university community. To obtain a copy of the report, contact the Towson University Police, 410-830-2505. The report is also available online, www.towson.edu/police.



University Curriculum

CURRICULUM

Towson University takes pride in the breadth and depth of its undergraduate academic programs. Students acquire a broad background in the liberal arts and sciences based on the General Education (GenEd) requirements, upon which they build concentrated study in one subject, their major field of study. They may select courses ranging from the traditional to the contemporary. This undergraduate foundation prepares them to take their place in the professional world or in graduate studies.

The university's six undergraduate colleges — the College of Business and Economics, the College of Education, the College of Fine Arts and Communication, the College of Health Professions, the College of Liberal Arts, and the College of Science and Mathematics — offer more than 54 undergraduate majors and 60 concentrations leading to the baccalaureate degree. The university also offers specialized programs, including minors, tracks, and interdisciplinary specializations.

DESIGNING YOUR COURSE OF STUDY

Although many students enter the university fully aware of their academic and occupational goals, others have yet to select a field or program of specialization. Frequently, students change their majors several times over the course of their college careers. Students may explore the range of programs that interest them in several ways.

- Consulting with an adviser at the Academic Advising Center, Lecture Hall, 410-830-2472
- Meeting with their assigned faculty adviser or with a faculty member whose field of study interests them
- Exploring career opportunities and vocational interests through the Counseling Center, Glen Esk, 410-830-2512
- Investigating career opportunities at the Career Center, 410-830-2233

DEGREE REQUIREMENTS

Student Responsibility

Students are expected to familiarize themselves with the *Undergraduate Catalog* and to satisfy all published degree requirements. Failure to do so does *not* provide a basis for exceptions to academic requirements or policies. It is expected that students will receive assistance from general academic and faculty advisers, but students must assume responsibility for completing published degree requirements.

Students are also expected to be familiar with regulations pertaining to campus life and deportment, and to conduct themselves in a way that reflects well upon themselves and Towson University.

Finally, students are expected to maintain communication with the university and to assure that their current addresses and telephone numbers are on file in Enrollment Services.

Bachelor of Science

Students must fulfill the following requirements to graduate with a Bachelor of Science degree:

1. Completion of a graduation application, filed with the Graduation Office (Enrollment Services Center), according to the following deadlines:
 - June graduates file by September 30 of the year prior to graduation.
 - December graduates file by May 30 of the year of graduation.
 - September graduates file by March 31 of the year of graduation.
2. At least 120 earned credit hours.

3. The General Education (GenEd) requirements (see below) or, for pre-1996 catalogs, the GURs.
4. At least 32 credit hours (part of the 120 total credits required) of upper-level work (courses numbered 300+ and 400+). Courses taken at two-year institutions *cannot* count as part of the 32 upper-level credit hours required. Courses from four-year institutions will transfer at the numerical level as they were taken at the transfer institution and may *not* be converted to an equivalent TU number or level.
5. Completion of Writing for a Liberal Education (ENGL 102) or its equivalent with a grade equivalent of 2.00 or higher.
6. Completion of a major (a grade equivalent of 2.00 or higher must be earned in all courses applied toward the major and, if applicable, minor).
7. A cumulative quality point average (QPA) of at least 2.00.
8. Completion of at least 15 credit hours *after* formal matriculation as a degree candidate.
9. Completion of at least 30 credit hours in residence at Towson unless permission is granted in advance by the Academic Standards Committee to earn the credits at another institution.

The undergraduate records of all persons receiving a bachelor's degree are **CLOSED** approximately six weeks after the official date of graduation. Any changes to the permanent record **MUST** be made within this period of time.

Bachelor of Arts

The requirements for the Bachelor of Arts degree mirror those for the Bachelor of Science degree, but Bachelor of Arts candidates must also complete a foreign language through the intermediate (200) level (or the equivalent). See the **Department of Modern Languages** section in this catalog.

Bachelor of Fine Arts

The Bachelor of Fine Arts degree is available only to students who complete the major in Dance. The requirements for the Bachelor of Fine Arts degree are identical to those for a Bachelor of Science degree, but Bachelor of Fine Arts candidates must also fulfill the performance and studio requirements specified by the Department of Dance.

Bachelor of Music

The Bachelor of Music degree is available only to students who complete the major in Music. The requirements for the Bachelor of Music degree are identical to those for a Bachelor of Science degree, but Bachelor of Music candidates must also fulfill the performance and studio requirements specified by the Department of Music.

NOTE: Students may *not* earn both a Bachelor of Science and a Bachelor of Arts or Bachelor of Fine Arts or Bachelor of Music degree simultaneously.

CATALOG SELECTION

Students must fulfill all degree requirements from a single catalog. They will be assigned the catalog in effect at the time of their original matriculation at Towson, and as long as they meet the requirements within 10 years of formal admission, they will graduate according to the requirements stated in that catalog.

Students may, for the purpose of fulfilling degree requirements, petition the Academic Standards Committee for permission to use an alternate catalog. Possible alternatives include:

1. using the catalog in effect at the time of their original matriculation at their initial transferring institution, provided 10 years have not elapsed. **Students may elect this option only by**

writing to the Office of Admissions during their first semester after matriculation at Towson;

2. selecting the catalog applicable to their graduating class (year of graduation minus four years). Students who elect this option must anticipate graduating by September of the year of graduation;

3. asking for a maximum of a one-year extension of their original catalog.

CATALOG EXTENSION

The Academic Standards Committee authorizes Enrollment Services to grant a *one-year* extension to degree candidates who have been unable to meet the major or general degree requirements in effect at the time of their original matriculation. This extension is granted only to students who have been attending the university on a regular basis (no more than a two-year time period without any course work).

Forms to petition the Academic Standards Committee to change catalogs are available in the Enrollment Services Center, room 223. Students must see an academic adviser before submitting this form in order to determine the ramifications their selection may have on their degree requirements. Please note that **any change in catalog may affect degree requirements and negate previous advising.**

GENERAL EDUCATION REQUIREMENTS

Many students are unclear about the purpose of the General Education requirements, which are designed to provide them with a liberal education. Uncertain about their future, students understandably question why they must complete a wide variety of course work that may not seem to contribute directly to their major field of study. Especially now, however, in a world of rapid economic, social and technological change, the importance of a broadly based education becomes more and more apparent. Higher education must serve a far wider function than merely to provide basic training for a particular occupation. It must help students gain essential intellectual skills that will be important throughout their lives.

These skills include those necessary for successful speaking and writing, the gathering and evaluation of information, the appreciation of diverse points of view, and the ability to move comfortably in the realm of ideas and values. More than anything else, it is these skills that will serve students throughout their lives, providing them with 1) the flexibility and resourcefulness required to adapt successfully to rapid social, economic and technological change, 2) the understanding and tolerance necessary for informed citizenship and social action, and 3) the interest and curiosity essential to the pursuit of learning throughout the whole of life.

The requirements are grouped in two basic categories: I. Skills for Liberal Learning, and II. Contexts for Liberal Learning. The requirements acknowledge that skills for knowing and what is to be known are closely integrated. Category I emphasizes useful tools for gathering, evaluating, valuing and shaping information and ideas. Category II identifies social, historical, cultural and scientific contexts wherein knowledge finds active meaning, and emphasizes the need for understanding interdisciplinary relationships among the different ways of knowing.

Courses in italics are honors courses. Courses in parentheses are no longer being offered but do fulfill General Education requirements for students who have taken them.

I. Skills for Liberal Learning

Category I.A. Writing for a Liberal Education

One course is required in this category. A grade equivalent of 2.00 or higher is required to fulfill the requirement. A grade of PS is acceptable provided the course is not required for the major or minor. Courses in italics are honors courses.

ENGL 102 Writing for a Liberal Education
ENGL 190 Honors Writing Seminar

Category I.B. Using Information Effectively

One course is required in this category. Courses in italics are honors courses. Courses in parentheses are no longer being offered, but do fulfill General Education requirements for students who have taken them.

ART 100 Using Visual Information Effectively
COSC 111 Information and Technology for Business
COSC 112 Honors Information and Technology for Business
ENGL 152 Solving Literary Problems
GEOG 230 Understanding and Communicating Through Maps
IDHP 110 Information Utilization in the Health Professions
(IDHS 110 Information Utilization in the Health Professions)
IDLA 100 Using Information Effectively: Learning in the Liberal Arts
(IDLA 101 Using Information Effectively in the Social Sciences)
(IDLA 103 Using Information Effectively: Understanding Political Systems)
IDNM 101 Towson Transition: Using Information Effectively in Science
INST 100 Using Information Effectively: The World Today
ISTC 201 Using Information Effectively in Education
ISTC 202 Honors Using Information Effectively in Education
MCOM 100 Using Information Effectively in Mass Communication
MUSC 100 Information Gathering and Assessment in Music
OCTH 211 Philosophy of Occupational Therapy
PHIL 102 Using Information Effectively in Philosophy
POSC 100 Using Information Effectively: Understanding Political Systems
PSYC 100 Using Information Effectively in Psychology
SOCI 100 Using Information Effectively in Social Sciences
THEA 125 Script Analysis
THEA 126 Honors Script Analysis

Category I.C. College Mathematics

One course is required in this category. Courses in italics are honors courses.

ECON 205	Statistics for Business and Economics
MATH 105	Mathematical Ideas
MATH 106	Introduction to Contemporary Mathematics
MATH 111	Algebra for Applications
MATH 115	Basic Mathematics for the Sciences
MATH 119	Pre-Calculus
MATH 205	Mathematical Concepts and Structures II
MATH 207	Quantitative and Geometric Reasoning
MATH 211	Calculus for Applications
MATH 231	Basic Statistics
MATH 233	<i>Honors Basic Statistics</i>
MATH 237	Elementary Biostatistics
MATH 263	Discrete Mathematics
MATH 273	Calculus
MATH 274	Calculus II
MATH 275	Calculus III
MATH 283	<i>Honors Calculus I</i>
MATH 284	<i>Honors Calculus II</i>
MATH 293	<i>Honors Seminar in Mathematics</i>
PSYC 212	Behavioral Statistics

Category I.D. Advanced Composition

One course is required in this category. A grade equivalent of 2.00 or higher is required to fulfill this requirement. Courses in italics are honors courses. Courses in parentheses are no longer being offered, but do fulfill General Education requirements for students who have taken them.

ANTH 401	Anthropological Theory
ART 351	Writing About Art
BIOL 381	Biological Literature
CHEM 301	Professional Ethics for Scientists
DANC 321	History of Dance
ECED 422	Writing Techniques for Teachers in Early Childhood Education
ECON 323	Comparative Economic Systems
ECON 325	Economic Development
ECON 333	Economics of Poverty and Discrimination
EDUC 301	Writing and Communication Skills for Teachers
(ELED 321	Foundations of Reading and Other Language Arts)
EMF 363	History of Film
EMF 377	Broadcast/Film Writing
ENGL 310	Writing Argument
ENGL 313	Academic Essay
ENGL 315	The Literary Essay
ENGL 316	Writing About Literature
ENGL 317	Writing for Business and Industry
ENGL 318	Advanced Informational Writing
GEOG 383	Natural Resources and Society: A Geographic Perspective
HIST 300	Introduction to Historical Study
HLTH 315	Curriculum and Planning
HLTH 316	<i>Honors Curriculum and Planning</i>
KNES 351	Philosophy: The Sport Experience
KNES 353	Sport and Society
KNES 357	Sports in Film
KNES 417	Organization and Administration of Athletic Training
KNES 469	Research Methods in Exercise Science
MCOM 356	Feature Writing
MCOM 357	Public Relations Writing
(MCOM 363	History of Film)

Category I.D. (continued)

(MCOM 377	Broadcast/Film Writing)
MUSC 302	History of Music II
(NURS 409	Nursing: Leadership and Management)
NURS 433	Professional Nursing III: Issues
OCTH 430	Research Methods in Occupational Therapy
(PHEC 351	The Sport Experience)
(PHEC 353	Sport and Society)
(PHEC 417	Organization and Administration of Athletic Training)
PHIL 460-469	Writing Seminar in Philosophical Studies
PSYC 314	Experimental Psychology
SOCI 300	Sociological Analysis
SPPA 417	Technical Writing in the Clinical Process
THEA 307	Theories of Theatre
WMST 333	Women's Words, Women's Lives
WRIT 312	History of Science
(WRIT 335	Ethics in the Physical Sciences)
WRIT 354	Writing for Criminal Justice
WRIT 375	Public Administration

Category I.E. Creativity and Creative Development

One course is required in this category. Courses in italics are honors courses.

ART 102	Design for Non-Art Majors
ART 106	Drawing for Non-Art Majors
ART 107	Ceramics for Non-Art Majors
ART 109	Sculpture for Non-Art Majors
ART 113	Painting for Non-Art Majors
ART 117	Printmaking for Non-Art Majors
ART 118	Jewelry for Non-Art Majors
ART 126	Fabric Design for Non-Art Majors
COSC 109	Computers and Creativity
DANC 235	Dance Composition I
ENGL 283	Introduction to Creative Writing
ENGL 311	Writing Poetry
ENGL 312	Writing Fiction
IDFA 203	Creativity in the Fine Arts
THEA 101	Acting I
THEA 102	<i>Honors Acting I</i>
THEA 142	Introduction to Theatre Design
THEA 231	Mime and Physical Theatre Techniques
THEA 353	Costume Design

II. Contexts for Liberal Learning**Category II.A.1. Scientific Inquiry**

Two courses, one of which must include a lab, are required in two separate disciplines or two sequential courses in one discipline; in all Category II requirements, no more than three courses in one discipline may be taken for GenEd credit. Courses in italics are honors courses. Courses in parentheses are no longer being offered, but do fulfill General Education requirements for students who have taken them.

ASTR 161	General Astronomy I
BIOL 110	Contemporary General Biology
BIOL 112	<i>Honors Contemporary General Biology</i>
BIOL 115	Biological Science I
BIOL 201	Biology I: Cellular Biology and Genetics
BIOL 202	Biology II: Introduction to Ecology, Evolution and Behavior
CHEM 100	Chemistry for Non-Scientists*
(CHEM 101	General Chemistry I)

*Non-lab course

Category II.A.1. (continued)

(CHEM 102	General Chemistry II)
CHEM 105	Chemistry for Allied Health Professions I
CHEM 106	Chemistry for Allied Health Professions II
CHEM 110	General Chemistry I
CHEM 111	General Chemistry II
<i>CHEM 112</i>	<i>Honors Chemistry for Non-Scientists*</i>
GEOG 101	Physical Geography*
(GEOL 111	Environmental Geology)
GEOL 121	Physical Geology
GEOL 123	Historical Geology*
PHSC 101	Physical Science I
(PHSC 111	Environmental Geography)
(PHSC 121	Physical Geology)
(PHSC 123	Historical Geology)*
(PHSC 135	Introduction to Laser Holography)
(PHSC 161	General Astronomy I)
PHYS 100	Understanding Physics*
PHYS 103	How Things Work*
PHYS 131	Light and Color
PHYS 135	Introduction to Holography
PHYS 202	General Physics for the Health Sciences
PHYS 211	General Physics I
PHYS 212	General Physics II
PHYS 241	General Physics I
PHYS 242	General Physics II

*Non-lab course

Category II.A.2. Science, Technology and Modern Society

One course is required in this category IF the two courses in II.A.1. equal 7 or fewer credits; in all Category II requirements, no more than three courses in one discipline may be taken for GenEd credit.

BIOL 321	Biology of Women
CLST 311	Science, Technology and Culture
COSC 311	Digital Technologies in Society
COSC 321	Computerization and Its Impacts
COSC 418	Ethical and Societal Concerns of Computer Scientists
ENGL 301	Rhetoric and Science
IDLA 301	Cities and Suburbs as Human Habitats
IDNM 305	Ethics, Science and Society
IDNM 307	Women, Gender and Science
IDNM 309	Women, Society and Radiation Science
IDNM 311	Human Genetics
IDNM 313	Plagues and People
MATH 305	Chance
PHIL 319	Science, Technology and Values
PSYC 301	Science, Pseudoscience and Superstition
WMST 339	Reproductive Technologies and the Future of Motherhood

Category II.B.1. American Experience: Arts and Humanities
One course is required in this category; the discipline (i.e., ENGL, HIST) chosen must be different than in II.C.1.; in all Category II requirements, no more than three courses in one discipline may be taken for GenEd credit. Courses in italics are honors courses.

AMST 201	Introduction to American Studies
ART 115	American Traditions in Painting
ARTH 113	Myths and Stories in American Art
DANC 127	Introduction to Dance: The American Experience
ENGL 230	Main Currents in American Literature
ENGL 236	American Indian Literature, 1772-Present
HIST 145	History of the United States to the Mid-19th Century
HIST 146	History of the United States since the Mid-19th Century
<i>HIST 148</i>	<i>Honors History of the United States since the Mid-19th Century</i>
IDFA 201	American Vision: Baltimore Visual and Performing Arts
MUSC 111	Introduction to American Music
MUSC 123	History of Jazz
<i>MUSC 125</i>	<i>Honors History of Jazz</i>
MUSC 127	Elements and History of Rock Music
THEA 103	Introduction to American Theatre

Category II.B.2. American Experience: Social and Behavioral Sciences

One course is required in this category; the discipline (i.e., ECON, POSC) chosen must be different than in II.C.2.; in all Category II requirements, no more than three courses in one discipline may be taken for GenEd credit. Courses in italics are honors courses.

ANTH 209	Anthropology of American Culture
ANTH 211	<i>Honors Anthropology of American Culture</i>
ECON 202	Macroeconomic Principles
<i>ECON 204</i>	<i>Honors Macroeconomic Principles</i>
POSC 103	American National Government
POSC 207	State Government
POSC 209	Introduction to Law
<i>POSC 212</i>	<i>Honors in Political Science</i>
PSYC 203	Human Development
<i>PSYC 204</i>	<i>Honors Human Development</i>
SOCI 101	Introduction to Sociology
<i>SOCI 102</i>	<i>Honors Introduction to Sociology</i>

Category II.B.3. American Experience: Contemporary Issues
One course is required; no more than three courses in one discipline may be taken for GenEd credit in all Category II requirements. Courses in italics are honors courses. Courses in parentheses are no longer being offered, but do fulfill General Education requirements for students who have taken them.

CLST 201	Introduction to Cultural Studies
COMM 131	Fundamentals of Speech Communication
COMM 132	<i>Honors Fundamentals of Speech Communication</i>
COMM 379	Intercultural Communication
DANC 101	The Alexander Technique
DANC 105	Movement Skills Enhancement for Men
DANC 106	Fundamentals of Dance Movement
EDUC 201	The Parenting Process
EMF 104	Introduction to Electronic Media
GERO 101	Introduction to Gerontology
HLTH 101	Wellness for a Diverse Society
HLTH 102	<i>Honors Wellness for a Diverse Society</i>
HLTH 207	Health Care in the U.S.
HLTH 217	<i>Honors Health Care in the U.S.</i>
HLTH 221	Sexuality in a Pluralistic Society
KNES 235	Individualized Fitness
(MCOM 140)	Introduction to Electronic Media)
(MCOM 151	Introduction to Journalism)
NURS 406	Cultural Diversity and Health Care
OCTH 103	Leisure and Health Issues in Contemporary Society
(PHEC 235	Individualized Fitness)
PHIL 253	Contemporary Ethical Problems
PHIL 255	Environmental Ethics
SOCI 210	Sociology of Sport
SPPA 205	Basic Sign Language

Category II.C.1. Western Heritage: Arts and Humanities
One course is required in this category; the discipline (i.e., ENGL, HIST) chosen must be different than in II.B.1.; no more than three courses in one discipline may be taken for GenEd credit in all Category II requirements. Courses in italics are honors courses.

ARTH 109	Art and the Human Body
ARTH 207	<i>Honors: Seminar in Art History</i>
ARTH 221	Survey of Western Art
ARTH 222	Survey of Western Art II
(DANC 102	Introduction to Dance)
DANC 123	Introduction to Dance: European Court
DANC 125	Introduction to Dance: Overview
DANC 133	<i>Honors Introduction to Dance: European Court</i>
ENGL 205	Shakespeare for Non-Majors
ENGL 221	British Literature to 1798
ENGL 222	British Literature since 1798
ENGL 240	Classics of the Western Heritage
ENGL 243	Introduction to Classical Mythology
ENGL 261	Tradition and Form in Western Poetry
ENGL 263	Tradition and Form in Western Fiction
ENGL 290	<i>Honors Seminar in Literature</i>
FREN 101	French Elements I
FREN 102	French Elements II
GERM 101	German Elements I
GERM 102	German Elements I
GERM 103	<i>Honors German Elements I</i>
GERM 104	<i>Honors German Elements II</i>
GRK 101	Elements of Modern Greek I
GRK 102	Elements of Modern Greek II

Category II.C.1. (continued)

GRK 103	Ancient Greek Elements I
GRK 104	Ancient Greek Elements II
HIST 101	Introduction to Ancient Civilization
HIST 102	History of European Civilization through the 17th Century
HIST 103	History of European Civilization from the 17th Century
HIST 105	Byzantine Empires and Balkans to 1821
HIST 108	<i>Honors History of European Civilization from the 17th Century</i>
HIST 231	History of Russian Civilization
(HIST 241	History of European Civilization through the 17th Century)
(HIST 242	History of European Civilization from the 17th Century)
(HIST 244	<i>Honors History of European Civilization from the 17th Century)</i>
ITAL 101	Italian Elements I
ITAL 102	Italian Elements II
LATN 101	Latin Elements I
LATN 102	Latin Elements II
LATN 201	Latin Intermediate I
LATN 202	Latin Intermediate II
LATN 301	Advanced Readings in Latin I
LATN 302	Advanced Readings in Latin II
MUSC 101	Introduction to Music of the Western Heritage
MUSC 102	Introduction to Music of the Western Heritage: Analytic Emphasis
MUSC 105	Elements of Western Music Theory
MUSC 106	<i>Honors Introduction to Music of the Western Heritage</i>
PHIL 101	Introduction to Philosophy
PHIL 111	Logic
PHIL 221	Ancient Greek Philosophy
PORT 101	Portuguese Elements I
PORT 102	Portuguese Elements II
RUSS 101	Russian Elements I
RUSS 102	Russian Elements II
SPAN 101	Spanish Elements I
SPAN 102	Spanish Elements II
THEA 241	Costume, Dress and Society: Egyptian to Elizabethan
THEA 242	Costume, Dress and Society: Elizabethan to 1950
THEA 243	<i>Honors Costume, Dress and Society: Egyptian to Elizabethan</i>
THEA 244	<i>Honors Costume, Dress and Society: Elizabethan to 1950</i>

Category II.C.2. Western Heritage: Social and Behavioral Sciences

One course is required in this category; the discipline (i.e., ECON, POSC) chosen must be different than in II.B.2.; no more than three courses in one discipline may be taken for GenEd credit in all Category II requirements. Courses in italics are honors courses.

ECON 201	Microeconomic Principles
ECON 203	<i>Honors Microeconomic Principles</i>
GEOG 109	Introduction to Human Geography
GEOG 110	<i>Honors Introduction to Human Geography</i>
POSC 101	Introduction to Political Science
PSYC 101	Introduction to Psychology
PSYC 102	<i>Honors Introduction to Psychology</i>

Category II.C.3. Western Heritage: Cultural Plurality and Diversity

One course is required in this category; no more than three courses in one discipline may be taken for GenEd credit in all Category II requirements. Courses in italics are honors courses.

ENGL 233	Survey of African-American Literature
ENGL 234	Major Writers in African-American Literature
ENGL 235	Ethnic-American Literature
ENGL 239	19th and 20th Century Jewish Literature
FREN 201	French Intermediate I
FREN 202	French Intermediate II
FREN 301	French Composition and Conversation I
FREN 302	French Composition and Conversation II
GERM 201	German Intermediate I
GERM 202	German Intermediate II
GERM 301	German Composition and Conversation I
GERM 302	German Composition and Conversation II
IDIS 101	Introduction to Lesbian and Gay Studies
ITAL 201	Italian Intermediate I
ITAL 202	Italian Intermediate II
ITAL 301	Italian Composition and Conversation I
ITAL 302	Italian Composition and Conversation II
MUSC 205	Women in Western Music
PHIL 204	Race, Class and Gender
PHIL 206	Judaism, Christianity and Islam
PHIL 251	African-American Philosophy
PORT 201	Portuguese Intermediate I
PORT 202	Portuguese Intermediate II
RUSS 201	Russian Intermediate I
RUSS 202	Russian Intermediate II
SOCI 241	Blacks in America: Myths and Reality
SPAN 201	Spanish Intermediate I
SPAN 202	Spanish Intermediate II
SPAN 301	Composition and Conversation I
SPAN 302	Composition and Conversation II
THEA 303	Cultural Diversity in Contemporary Theater
THEA 304	<i>Honors Cultural Diversity in Contemporary Theater</i>
WMST 231	Women in Perspective
WMST 232	<i>Honors Seminar: Women in Perspective</i>

Category II.D. Global Awareness: Non-Western Cultures, Traditions, Issues

One course is required; no more than three courses in one discipline may be taken for GenEd credit in all Category II requirements. Courses in italics are honors courses. Courses in parentheses are no longer being offered, but do fulfill General Education requirements for students who have taken them.

ANTH 207	Cultural Anthropology
ANTH 208	Human Evolution and Prehistory
ANTH 210	<i>Honors Cultural Anthropology</i>
ARTH 105	Art in the Culture
ARTH 107	Art: Themes, Dreams and Visions
ARTH 108	Introduction to Non-Western Art
ARTH 208	<i>Honors: Seminar in Non-Western Art History</i>
CHNS 101	Elementary Modern Chinese I
CHNS 102	Elementary Modern Chinese II
CHNS 201	Chinese Intermediate I
CHNS 202	Chinese Intermediate II
CHNS 301	Chinese Composition and Conversation I
CHNS 302	Chinese Composition and Conversation II
ENGL 244	World Folklore
ENGL 248	Literature of Global Experience
GEOG 102	World Regional Geography
GEOG 105	Geography of International Affairs
HEBR 101	Elements of Hebrew I
HEBR 102	Elements of Hebrew II
HEBR 201	Hebrew Intermediate I
HEBR 202	Hebrew Intermediate II
HEBR 301	Hebrew Composition and Conversation I
HEBR 302	Hebrew Composition and Conversation II
HIST 107	Introduction to History of Islamic Civilization
HIST 109	Introduction to the Civilization of India
HIST 110	East Asian Civilization to the 17th Century
HIST 111	East Asian Civilization since the 17th Century
(HIST 118)	Introduction to Japanese Civilization)
(HIST 119)	Introduction to Chinese Civilization)
HIST 121	Latin America: Colonial Period
HIST 122	Latin America: National Period
(HIST 134)	History of Africa: 19th Century to the Present)
HIST 135	African History and Culture
HIST 150	Europe and the Non-European World
HIST 151	The World Since 1945
JPNS 101	Japanese Elements I
JPNS 102	Japanese Elements II
JPNS 201	Japanese Intermediate I
JPNS 202	Japanese Intermediate II
JPNS 301	Japanese Composition and Conversation I
JPNS 302	Japanese Composition and Conversation II
MUSC 109	Introduction to World Music
PHIL 105	Introduction to the Study of Religion
PHIL 205	Women in World Religions
PHIL 219	Introduction to Asian Philosophy
POSC 105	Governments of the World
POSC 107	Introduction to International Relations
WMST 233	International Perspectives of Women
WMST 234	<i>Honors: International Perspectives of Women</i>

TRANSFER PACKAGES (effective fall 2000)

Towson University offers Transfer Packages to newly enrolled transfer students. The packages vary according to the General Education (GenEd) requirements completed at the sending institution.

A Transfer Package A, B, or C will be awarded to students meeting the following criteria prior to matriculation at Towson University: 40 transferable credits of liberal arts course work comparable to courses that native Towson University students may use to satisfy GenEd and, as part of the 40 credits, the completion of the minimum MHEC (Maryland Higher Education Commission) General Education requirements.

Package A

- 40 credits toward GenEd completed at sending institution
- 6 credits of GenEd courses required at Towson
 - I.D. Advanced Composition (Upper-Level)
 - II.A.2. Science, Technology and Modern Society (Upper-Level)

Package B

- 40+ credits toward GenEd completed at sending institution
- 7.5+ science credits toward GenEd completed at sending institution
 - II.A.2. Science, Technology and Modern Society WAIVED
- 3 credits of GenEd required at Towson
 - I.D. Advanced Composition (Upper-Level)

Package C Baccalaureate Institution Transfers Only

- 44-46 credits of GenEd required and completed at sending institution
- GenEd SATISFIED IN TRANSFER

Minimum Requirements for GenEd Transfer Packages

Transfer packages will be awarded provided the following requirements are completed *prior* to matriculation at Towson University:

- Minimum MHEC requirements:
 - One college-level freshman composition course (Towson graduation requirement: a grade equivalent of a 2.00 or higher must be earned)
 - One college-level mathematics course (Prerequisite: two years of high school algebra)
 - Two science courses (one must be a lab)
 - Two arts/humanities courses (must be different disciplines)
 - Two social science courses (must be different disciplines)
- Additional liberal arts requirements:
 - Emerging Issues courses (must include information technology)
 - One cultural diversity course
 - One global awareness course

Course work for transfer students not awarded a GenEd package will be applied toward Towson's GenEd requirements on a course-by-course basis.

CHOOSING A MAJOR

The General Education (GenEd) requirements allow students to explore a broad range of subjects, while the major and minor provide in-depth study of one or more fields. A major may require as few as 30 hours or as many as 70 hours. The exact number varies and is set by the academic department.

All students are asked to declare a major during their initial registration. Those who are not sure which major they wish to pursue will be designated as "open majors." In order to add or change a major or minor, students must complete a Declaration of Major/Minor Form in the Enrollment Services Center, room 223.

Major

A major consists of courses required of a particular discipline that may include both lower-level (100-200) and upper-level (300-400) courses within and outside the discipline. A grade equivalent of 2.00 or higher is required in all courses completed toward the major, and a minimum cumulative Quality Point Average (QPA) of 2.00 must be earned in the major.

Double Major

A double major combines the requirements of two majors, allowing students to complete both majors by taking fewer credits than if each major were completed separately.

Minor

An institutionally approved set of courses within a major area of study, or a separate, distinct thematic area of study consisting of at least 18, or no more than 30 credit hours. A minimum of 12 credit hours must be upper-level courses (300-400 numbered courses) and no more than 12 credit hours can be taken outside of the minor or thematic discipline.

Concentration

In some departments the major is further divided into concentrations. A concentration is a focused area of study involving approximately 15 to 24 credits. Because the university formally recognizes concentrations, they will appear on students' academic records. Students interested in a particular concentration within a major should contact the department for details.

Track

A track is a university-approved area of focus within a larger area of study, but, unlike a concentration, it has not been formally approved by the Maryland Higher Education Commission (MHEC). Because it does not carry formal recognition, it may not appear on the academic record.

Area of Focus

An area of focus is an institutionally approved area of study within a concentration or track of at least 12, but no more than 24, credit hours. At least half of the required courses must be upper-level (300-400 numbered courses).

Screened/Competitive Majors

Some programs of study are screened. Students must meet certain academic or curricular criteria, such as completing prerequisite courses or attaining a specific average, before they are admitted to these programs.

Other programs of study, while not officially approved screened majors, are competitive. Students must either submit a portfolio of work or audition before they are admitted to these programs.

The criteria are published in the applicable sections of this catalog. Admission to the university does *not* guarantee admission to screened or competitive programs.

Out-of-State Students

Recognizing the advantage of a diverse student body, the university welcomes out-of-state applicants to its screened programs. However, because the university is partially supported by Maryland taxpayers, the proportion of out-of-state students admitted to its screened programs must be limited. Therefore, no more than 25 percent of each class of new students admitted to screened programs will be out-of-state residents unless qualified in-state students are unavailable.

COLLEGES

The university comprises eight colleges: the College of Business and Economics, the College of Education, the College of Fine Arts and Communication, the College of Health Professions, the College of Liberal Arts, the College of Science and Mathematics, the College of Graduate Education and Research and the College of Extended Programs.

Once students have determined a program of study, they become a member of, and graduate from, the academic college administering the program.

College of Business and Economics

The mission of the College of Business and Economics (CBE) is to provide successful graduates with Knowledge, Skills, and Attitudes (KSAs) that employers want. Dynamic partnerships with business, government, and nonprofit organizations enhance the academic program. The Accounting and Business Administration programs are accredited by AACSB: The International Association for Management Education. Students earn degrees in accounting, business administration, and economics. Within the business administration major, students choose among concentrations in finance, management or marketing, or tracks in e-commerce, economics, human resource management, international business or legal studies.

College of Education

As the first teacher-training institution in Maryland, Towson University has been preparing men and women for teaching careers for more than 130 years. Today, the College of Education has a nationwide reputation as a leader in teacher education. Programs of study lead to the baccalaureate degree in education with certification to teach Early Childhood Education, Elementary Education, Secondary Education, and Special Education. In addition, the college offers teacher certification for students enrolled in other colleges of the university.

College of Fine Arts and Communication

Recognized as a fine arts center for Maryland, the College of Fine Arts and Communication trains talented men and women to pursue careers in the arts and communication. Additionally, the college offers all TU students the opportunity to participate in both academic and artistic experiences in these areas.

Because the creative process involves close dialogue between teacher and student, programs are structured to allow for individual attention. All programs provide a broad liberal education as well as specialized professional training.

College of Health Professions

The departments of the College of Health Professions have the common goal of preparing students to provide human services designed to improve the quality of life. The college is composed of the departments of Communication Sciences and Disorders, Health Science, Kinesiology, Nursing, and Occupational Therapy. Graduates of the baccalaureate programs in Nursing and Occupational Therapy are eligible to sit for their respective certification examinations.

A major in the College of Health Professions can prepare students for one of many health-related careers. Some examples include community health education, speech and language pathology, hospital management, teaching, medical technology, athletic training, professional coaching, sports information, recreation leadership, research, and government service.

College of Liberal Arts

A liberal arts education produces an individual who can analyze and interpret information and arrive at informed judgments about complex issues. The College of Liberal Arts offers courses that are designed to assist students in developing these abilities.

More than 2,400 undergraduates major in liberal arts programs at TU. More than 350 graduate students are pursuing master's degrees in the college. The College of Liberal Arts emphasizes excellent teaching, scholarship and creativity. Its students and faculty contribute actively to the intellectual and cultural life of the community.

The liberal arts provide an excellent preparation for many careers as well as for graduate studies. Graduates can seek careers in such diverse areas as teaching, law, journalism, counseling, museum work, urban planning, and publishing, among others.

College of Science and Mathematics

The principal goal of the College of Science and Mathematics is to provide students with a technological/scientific dimension to their liberal education. Courses are offered in all of the traditional physical, mathematical, and life sciences disciplines. Programs are vigorous, yet highly flexible. Students may choose a traditional science major or may elect cross-disciplinary majors, such as Environmental Science and Studies. Also offered is a Dual Degree Engineering Program and pre-professional preparation in pharmacy, medicine, dentistry, veterinary medicine and physical therapy. Another option is the major in Science and/or Mathematics Teaching at the secondary or elementary level.

College of Graduate Education and Research

One of Towson University's institutional goals is to make graduate education a larger presence on campus. The College of Graduate Education and Research has rapidly expanded programs and streamlined administrative processes to accommodate the growing graduate student population. The college currently administers 27 master's degree programs and a growing roster of postbaccalaureate certificate programs. A hallmark of graduate education at Towson is the emphasis on applied programs that provide skills and knowledge needed by career professionals.

Faculty and student research is closely related to graduate education. The Office of University Research Services (OURS) was established to assist faculty and staff in obtaining external support for research and scholarly activity. It serves the dual function of protecting the university's interests in matters relating to external funding, while providing a high level of service to university faculty and staff members in identifying funding opportunities, developing project ideas into competitive proposals, and submitting complete and competitive proposals.

College of Extended Programs

The College of Extended Programs is committed to enriching lives by connecting the programs, services and intellectual resources of Towson University to constituencies on campus, in the Greater Baltimore region, and beyond. The college includes four units: Older Adult Programs, which include Elderhostel, the Auburn Society, and Senior Cyber Net; The Career Center, which connects students and alumni to potential employers through internships, part-time opportunities, and full-time careers; the Computer Technology Training Center, which provides information technology certification programs; and Extended Learning Enterprises, which administers Towson University programs at off-campus centers, distance learning courses, Corporate University programs, and the summer and Minimester sessions.

Undergraduate Programs

COLLEGE OF BUSINESS AND ECONOMICS

Accounting Major*+

Business Administration Major/Minor+

Concentrations

Finance

Management

Marketing

Interdisciplinary Specialization

Marketing—Mass Communication Interdisciplinary Specialization

Tracks

CBE Individualized—Legal Studies Track

E-Commerce

Human Resource Management

International Business

Economics

Double Major

Business Administration and Computer Information Systems

Economics Major/Minor

Double Majors

Economics and Geography

Economics and Mathematics

Economics and Political Science

COLLEGE OF EDUCATION

Art Education (K-12) Major*

Dance Performance and Education (K-12) Major*#

Early Childhood Education Major*+

Elementary Education Major*

Track

Science and Mathematics

Minor

Mathematics

Library Media Certification (K-12)

Music Education (K-12) Major #

Concentrations

Instrumental#

Vocal/General#

School Health—Teacher Education (K-12)

Special Education Major*

Track

Infant/Primary

Secondary/Adult

Physical Education (K-12) Major *

Secondary Education Major*

Certification Areas

Biology

Chemistry

English

French

General Science

Geography

German

History

Mathematics

Physics

Social Science

Spanish

COLLEGE OF FINE ARTS AND COMMUNICATION

Art Major/Minor

Concentrations

Art History

Crafts

Industrial Design (pending MHEC approval)

Painting

Printmaking

Sculpture

Visual Communication/Photography

Areas of Focus

Ceramics

Jewelry

Crafts

Painting

Computer Art

Graphic Design

Illustration: Studio Media/Digital

Photography: Fine and Applied Arts

Photography: Photographic Imaging

Communication Studies Major/Minor

Double Major

Communication Studies and Political Science

Dance Performance and Education (K-12) Major#

Electronic Media and Film Major/Minor

Tracks

Film

Radio

Television

Theory and Criticism

Mass Communication Major/Minor

Tracks

Advertising

Journalism

Strategic Public Relations and Integrated Communication

Double Major

Mass Communication and Political Science

Interdisciplinary Specialization

Mass Communication—Marketing Interdisciplinary Specialization

Music Major/Minor+#

Concentrations

Theory and Composition#

Guitar Performance#

Jazz/Commercial Music#

Music Literature#

Keyboard Performance#

Voice Performance#

Winds/Strings/Percussion Performance#

Theatre Major/Minor

Tracks

Acting

Design and Production

General Theatre

COLLEGE OF HEALTH PROFESSIONS

Athletic Training Major*+

Deaf Studies Major

Exercise Science Major

Health Care Management Major

Health Science Major+

Concentrations

Community Health

School and Community Health Education

School Health—Teacher Education

Nursing Major*+

Basic Program

RN Completion Program

Occupational Therapy Major*+

Physical Education Major (K-12) Certification

Speech-Language Pathology and Audiology Major*+

Sport Management Major

Sport Studies Major

Concentrations

Psychology of Sport

Sport Communication

Pre-Professional Preparation

Pre-Medical Technology

COLLEGE OF LIBERAL ARTS

Cultural Studies Major/Minor
 English Major/Minor
Concentrations
 Literature
 Writing
Minors
 World Literature
 Creative Writing
 Family Studies
 Environmental Science and Studies Major
Concentration/Minor
 Environmental Studies
 French Major/Minor/Proficiency
 Geography and Environmental Planning Major/Minor
Double Majors
 Geography and Economics
 Geography and Political Science
 Geography and Sociology
 German Major/Minor/Proficiency
 Gerontology Major
 History Major/Minor
 Interdisciplinary Studies Major
Tracks/Minors
 African-American Studies
 American Studies
 Asian Studies
 Classical Studies
 Comparative Ethnic Studies
 Latin American Studies
 Medieval and Renaissance Studies
 Religious Studies
Tracks
 Animal Behavior
 Pre-Professional Preparation
 Prelaw
 Dual Degree Prelaw Program(with University of Baltimore)
Minors
 Business, Communication and the Liberal Arts
 Irish Studies
 Jewish Studies
 Lesbian and Gay Studies
 International Studies Major/Minor
Tracks
 General
 Asia
 Latin America
 Europe
Minor
 European Studies
 Law and American Civilization Major
 Metropolitan Studies Major
 Philosophy Major/Minor
 Political Science Major/Minor
Double Majors
 Political Science and Economics
 Political Science and Geography
 Political Science and Communication Studies
 Political Science and Mass Communication
 Psychology Major/Minor
Concentration
 Clinical Psychology
 Social Science Major
 Sociology-Anthropology Major/Minor
Concentrations
 Anthropology
 Sociology
 Criminal Justice
Double Major
 Sociology and Geography
 Spanish Major/Minor/Proficiency
 Women's Studies Major/Minor

COLLEGE OF SCIENCE AND MATHEMATICS

Biology Major/Minor
Concentrations
 Animal Anatomy and Physiology
 Botany
 Ecology
 General Science Teaching
 Microbiology
 Premedicine/Pre dentistry
 Secondary Education
 Zoology
Tracks
 Animal Behavior
 Marine Biology
 Chemistry Major/Minor (ACS accredited degree)
Track
 Biochemistry (ACS accredited degree)
 Computer Information Systems Major/Minor
Double Major
 Computer Information Systems and Business Administration
 Computer Science Major/Minor+
Double Major
 Computer Science and Mathematics
 Environmental Science and Studies Major
Concentration
 Environmental Science
Minor
 Environmental Studies
 Geosciences Major
Concentration
 Geology
Track
 Earth Science
 Mathematics Major/Minor
Concentrations
 Actuarial Science
 Applied Mathematics
 Applied Mathematics and Computing
 Pure Mathematics
 Secondary Education
Minor
 Applied Statistics
 Molecular Biology, Biochemistry and Bioinformatics Major
 Physics Major/Minor
Tracks
 Astrophysics
 Applied Physics
 General Physics
Minor
 Astronomy
 Dual Degree Program
 Medicinal Chemistry (with University of Maryland School of Pharmacy)
 Physics and Engineering (with University of Maryland, College Park)
Special Program
 B.S. in Physics/M.S. in Computer Science
 Pre-Professional Preparation
 Prepharmacy
 Pre-physical Therapy
 Preveterinary Medicine

Concentrations, minors and tracks are listed within major programs.

*Screened or competitive major. Admission to the university does *not* guarantee admission to this major program.

+This program is accredited by a national association.

Auditions are required.

HONORS COLLEGE

OFFICE

Cook Library 524

Phone: 410-830-4677

E-mail: honors@towson.edu

www.towson.edu/honors

Towson University Honors is designed for students who have demonstrated superior academic performance in the past, and who wish to pursue unique educational opportunities while attending the university. Students may major in any field at Towson University and be part of the Honors College. At Towson, the Honors College is a true community of scholars. Honors students are encouraged to seek intellectual excellence and leadership through opportunities that go beyond the routine college experience.

Curriculum

Students in the Honors College are required to take five Honors College courses in consecutive semesters. Many of the courses are honors sections of General Education (GenEd) courses, but some courses are unique to the Honors College. There are Honors College courses in a wide range of academic disciplines; for example, anthropology, art history, biology, chemistry, mass communication and communication studies, economics, English, history, philosophy, political science, psychology, sociology, and women's studies. Honors College courses, taught by outstanding faculty committed to excellence in undergraduate education, are designed to facilitate discussion and collaborative learning.

Science Scholars

Towson University is building a learning community for exceptionally qualified and motivated undergraduate science majors (chemistry/physics, biological sciences, and mathematical/computer sciences). In addition to taking honors courses with small class sizes, discussion, and in-depth exposure to the GenEd requirements, students in the Science Scholar Program take major required courses together in cohorts. They also have access to special research opportunities with faculty, residential options, field experience, and mentoring relationships with senior faculty in their primary areas of study.

Over the course of their Towson University careers, these students will have opportunities to come together from time to time to reflect on their diverse educational experiences in seminars and other forums. A primary program emphasis is to prepare students for graduate or professional school in the sciences and mathematics.

Requirements

Students are considered for admission to the Honors College if they meet one or more of the following criteria: (1) high academic potential, indicated by a minimum SAT I score, currently 1180 with a minimum 620 verbal; (2) high academic achievement, indicated by such factors as placement in the top 10 percent of their high school graduating class or a high school GPA of 3.50 or higher, with an SAT I minimum of 550 verbal, 500 math; (3) special permission of the honors program director after consideration of the type and nature of the program completed in high school. Students transferring from another college or university must have a 3.50 minimum Quality Point Average (QPA) in order to be considered for participation in the Honors College.

Students must complete at least five Honors College courses and attain a minimum 3.50 quality point average overall in order to be designated as graduates of the Honors College. Students may transfer a maximum of two honors-designated courses from another institution in completing degree requirements.

Benefits

TU students in the Honors College can take advantage of the following benefits:

- They may attend small, informal discussion sessions with faculty.
- They have priority scheduling for course registration.
- They may take classes not offered to the rest of the university, including seminars, science scholars, special focus courses, and study abroad programs.
- They have access to special campus facilities including honors housing and an honors lounge.
- They are eligible for special scholarship support.
- They may participate in special service initiatives or peer mentoring.

Special Scholarship Opportunities

Honors College scholarships are available to incoming students in amounts up to \$3,000. The scholarships are awarded on a competitive basis to students invited to apply to the Honors College. The application is submitted along with an essay. The Honors College Selection Committee chooses the scholarship recipients. The recipients are required to maintain a 3.50 Q.P.A. or better each year to continue to receive the scholarship.

Complete Listing by General Education Category

(See Course Descriptions section for more detailed information.)

HONORS COLLEGE COURSES**GenEd I.A.****Writing for a Liberal Education**

ENGL 190 Honors Writing Seminar

GenEd I.B.**Using Information Effectively**

COSC 112 Honors Information and Technology for Business

ISTC 202 Honors Using Information Effectively in Education

THEA 126 Honors Script Analysis

GenEd I.C.**College Mathematics**

MATH 233 Honors Basic Statistics

MATH 283 Honors Calculus I

MATH 293 Honors Seminar in Mathematics

GenEd I.D.**Advanced Composition**

HLTH 316 Honors Curriculum and Planning

GenEd I.E.**Creativity and Creative Development**

THEA 102 Honors Acting I

GenEd II.A.1.**Scientific Inquiry**

BIOL 112 Honors Contemporary General Biology

CHEM 112 Honors Chemistry for Non-Scientists

GenEd II.B.1.**American Experience: Arts and Humanities**

HIST 148 Honors History of the United States since the Mid-19th Century

MUSC 125 Honors History of Jazz

GenEd II.B.2.**American Experience: Social and Behavioral Sciences**

ANTH 211 Honors Anthropology of American Culture

ECON 204 Honors Macroeconomic Principles

POSC 212 Honors in Political Science

PSYC 204 Honors Human Development

SOC1 102 Honors Introduction to Sociology

GenEd II.B.3.**American Experience: Contemporary Issues**

COMM 132 Honors Fundamentals of Speech Communication

HLTH 102 Honors Wellness for a Diverse Society

HLTH 217 Honors Health Care in the U.S.

GenEd II.C.1.**Western Heritage: Arts and Humanities**

ARTH 207 Honors Seminar in Art History

DANC 133 Honors Introduction to Dance: European Court

ENGL 290 Honors Seminar in Literature

GERM 103 Honors German Elements I

GERM 104 Honors German Elements II

HIST 108 Honors History of European Civilization from the 17th Century

MUSC 106 Honors Introduction to Music of the Western Heritage

THEA 243 Honors Costume, Dress and Society: Egyptian to Elizabethan

THEA 244 Honors Costume, Dress and Society: Elizabethan to 1950

GenEd II.C.2.**Western Heritage: Social and Behavioral Sciences**

ECON 203 Honors Microeconomic Principles

GEOG 110 Honors Introduction to Human Geography

PSYC 102 Honors Introduction to Psychology

GenEd II.C.3.**Western Heritage: Cultural Plurality and Diversity**

WMST 232 Honors Seminar: Women in Perspective

THEA 304 Honors Cultural Diversity in Contemporary Theatre

GenEd II.D.**Global Awareness: Non-Western Cultures, Tradition and Issues**

ANTH 210 Honors Cultural Anthropology

ARTH 208 Honors Seminar in Non-Western Art History

WMST 234 Honors International Perspectives of Women

Other Honors Courses

ACCT 211 Honors Accounting Principles I

ACCT 212 Honors Accounting Principles II

PHIL 212 Honors: Special Studies in Philosophy

SOC1 197 Honors Seminar in Community Power Analysis

DEPARTMENTAL HONORS

The Departmental Honors Program represents intensive and individualized but directed education beyond the normal course of instruction. This program includes 6 to 9 credit hours in seminars, directed readings (tutorials), and research projects in the major. A senior thesis is required, as is an oral defense of the thesis.

To be admitted to the program, students must present a cumulative average of 3.25 and a 3.50 average in their discipline. These minimum averages must be maintained for graduation as a Departmental Honors Program participant. Students who complete an approved program will receive a diploma and transcript with the designation, Bachelor of Science or Bachelor of Arts with Honors, in the appropriate discipline. Currently, the departments of Art; Biological Sciences; Computer and Information Sciences; English; History; Mathematics; Modern Languages; Kinesiology; Physics, Astronomy and Geosciences; Political Science; Psychology; and Sociology, Anthropology and Criminal Justice offer departmental honors programs. Details of each department's honors requirements may be obtained from the appropriate chair.

DEAN'S LIST

Office of the Provost, 410-830-2125

Full-time degree candidates are eligible for Dean's List recognition each fall and spring semester provided they complete a minimum of 12 calculable semester hours and attain a 3.50 or higher Quality Point Average (QPA).

Part-time degree candidates are eligible for Dean's List recognition each academic year provided they complete a minimum of 12 calculable semester hours and attain a 3.50 or higher Quality Point Average during that academic year. An academic year is designated as fall through summer and includes the January Minimester.

Applicable course work is only that in which *calculable grades* (A, A-, B+, B, B-, C+, C, C-, D+, D-, F, FX) are earned. Pass (PS), Audir (AU), and Satisfactory/Unsatisfactory (S/U) grades do not apply toward the 12-credit minimum.

Additionally, students who receive Incomplete (I) grades for the term are *not* eligible for Dean's List honors in that term, nor may they retroactively receive those honors once the work is made up and a letter grade is earned.

GRADUATION WITH HONORS

Enrollment Services

Enrollment Services Center, 410-830-2095

To receive a bachelor's degree with honors, students must have completed 60 credits of undergraduate work at Towson University with the following cumulative Quality Point Average:

3.75 to 4.00 Summa Cum Laude

3.55 to 3.74 Magna Cum Laude

3.40 to 3.54 Cum Laude

Transfer students must have, in addition, a cumulative 3.40 or better average for all work completed at other institutions and a minimum of 60 semester hours of work at Towson University.

Students who do not qualify for honors because of their TU or transfer QPA may petition the Academic Standards Committee if they attain a cumulative average of 3.55 or higher in their last 60 credits at Towson. These students will be eligible only for Cum Laude honors.

GRADUATION WITH LATIN HONORS

Effective with the May 2001 graduating class, students will graduate from Towson University with Latin Honors if they meet the following criteria. (See current criteria above.)

1. Latin Honors are awarded to students with a cumulative Quality Point Average (CQPA) equal to the highest 2 percent (Summa Cum Laude), next highest 4 percent (Magna Cum Laude), and the following 6 percent (Cum Laude) of the CQPA distribution used in calculations for that semester's graduating class.
2. Students with a CQPA of less than 3.50 will *not* be considered for Latin Honors.
3. The graduating CQPA will be based on students' performance in the final 60 credits earned at Towson University. This will apply whether students first matriculated at TU or transferred from another institution. The final 60 credits will include the *entire* semester in which the total of 60 credits was attained. At least 45 of these 60 credits *must* have calculable grades.
4. Students who wish to be considered for Latin Honors based upon their entire academic record at Towson may elect that option when they submit their graduation applications, provided they will have earned at least 60 credits at TU upon

graduation (with at least 45 of those credits having calculable grades). The Graduation Office within Enrollment Services, 410-830-2095, will do the evaluation.

5. The publication in the commencement program of the names of students who are candidates for honors will be based on CQPA data generated after the preceding grading cycle (after Minimester for May graduates, after summer for December graduates). Actual honors will be determined upon confirmation that students' academic performance meet the prescribed criteria, including the final semester of enrollment.

OPPORTUNITIES FOR OFF-CAMPUS STUDY

Students at Towson may expand their educational opportunities by studying in universities throughout Maryland, the United States, and in countries around the world. In some programs, students are able to pay tuition approximately equal to that at Towson (plus transportation), while others will require additional funds. Students considering one of the off-campus study options will want to plan ahead for their experience.

Inter-Institutional/BSEP Registration Program

Enrollment Services Center, 410-830-2007

The Inter-Institutional Registration Program at Towson University is designed to foster an interchange of students between Towson and other University System of Maryland institutions. Certain private colleges, such as Goucher, Loyola, Johns Hopkins, College of Notre Dame and Morgan State University, also participate in a similar program called the Baltimore Student Exchange Program (BSEP), with no additional tuition costs to students.

Interested students should contact the coordinator at Towson. Students must maintain a combined full load (12 or more credits) at **both** institutions with a minimum of 6 credits at TU. With approval of the coordinator, students may register for one or two courses at the **host** institution. Enrollment is on a space-available basis. Students must obtain special permits or instructor consent to register for courses that require them at the host institution. Students participating in the Inter-Institutional Registration Program must follow the withdrawal deadlines at the **host** institutions.

At the end of the term, the host institution's registrar will send an official transcript to Towson, and the courses completed and grades earned will be posted to the Towson record and *calculated into the Towson cumulative average*. Additionally, a notation will be made that the course work was completed through the program, indicating the name of the host institution.

National Student Exchange (NSE)

Lecture Hall 410-830-3583

This program allows full-time degree candidates an opportunity to become acquainted with social and educational patterns in other areas of the United States. Through Towson's membership in the NSE, students may attend one of the 140 participating schools for a semester or a full year. Schools participating in the program include ones in Puerto Rico, Guam, the Virgin Islands, and in 47 other states. For further information, contact the program coordinators, Tracy Miller, 410-830-3583, or Susan Hyman, 410-830-2007.

Consortia Agreements

Enrollment Services Center, 410-830-3104

Students at TU may participate in consortia agreements between accredited two- and four-year colleges and universities. Consortia agreements are useful for students who wish to use part of their financial aid to pay for all or part of the tuition and fees at the participating institution.

Students wishing to participate in a Consortia Agreement must

1. be in good academic standing at TU. Students for whom an exception to suspension, dismissal or disenrollment has been made or who have been readmitted on probation are ineligible;
2. not have completed more than 64 credits at community colleges or more than 90 total credits at all schools attended, including TU;
3. be enrolled for a minimum of 6 credits at TU, and must have financial aid for the specific period;
4. obtain from the appropriate TU academic department(s) verification that the courses selected are transferable in accordance with current transfer credit policies and procedures;
5. not attempt to repeat courses at the participating institution if they have been attempted at TU with an earned grade of C-, D+, D, F or FX.

Note: Students do not need a consortia agreement if they register through either the BSEP or IIR programs (see previous section).

Students should also be aware that grades and credits earned through a consortia agreement are posted to the TU record and calculated in the academic totals. Accordingly, the Academic Standards Committee reserves the right of approval in some cases if the Pass grading option is elected on courses taken as part of a consortia agreement.

For more information, contact Marilyn Leuthold, Enrollment Services, 410-830-3104.

STUDY ABROAD

Enrollment Services Center 322, 410-830-2451

Fax: 410-339-7151

(This office is moving to the new Administration Building, 7720 York Rd., 2nd floor. Please call before visiting.)

www.towson.edu/studyabroad

Sara Dumont, *Director*

Tina Cavaluzzi, *Adviser*

Steven Siak, *Adviser*

The Study Abroad Office provides a wide range of overseas academic experiences for Towson students. It plays an important role in the university's mission to internationalize the campus community and "to provide all of its students with a broad knowledge and understanding of the global society." Currently, more than 150 students per year from a variety of disciplines participate in TU's study abroad and exchange programs.

The Study Abroad Office provides the following services: coordinates and manages study abroad and exchange programs; advises interested and eligible students on incorporating an overseas experience in their undergraduate degree program; acts as a liaison for the student, academic departments and various administrative offices on campus, and foreign universities; and provides support services to students prior to, during, and following a study abroad experience.

The university maintains relationships with various institutions abroad and U.S.-based organizations providing overseas study opportunities in Europe, the Americas, Africa, Asia, Mexico, the Caribbean, New Zealand, Canada and Australia. Specifically, the university coordinates programs with the following institutions abroad:

Australia

UNIVERSITY OF TASMANIA

www.utas.edu.au

Fine Arts and Communication, Humanities, Natural and Physical Sciences, Liberal Arts, Theatre, Languages, Mathematics, Business and Economics, Biology

China

RENMIN UNIVERSITY

www.cdt.com.cn/renmin.htm

Chinese Language and Culture

Denmark

DENMARK INTERNATIONAL STUDY PROGRAM

www.disp.dk

Humanities, Social Sciences, International Business, Biology and Ecology, Architecture and Design

France

UNIVERSITY OF TOURS

www.univ-tours.fr

French Language, Literature, Culture, and Contemporary History

INSTITUT DE FORMATION INTERNATIONALE

www.ifi-rouen.com

French Language and Culture and Civilization, Business and Marketing, European Cultural Studies, Languages

Germany

CARL VON OSSIETZKY UNIVERSITY AT OLDENBURG

www.uni-oldenburg.de

German Language, Liberal Arts and Sciences, Natural Sciences, Fine Arts and Communication, Business and Economics

UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE

www.sg.umuc.edu

American Studies, Humanities, Social Sciences, Art and Art History, Natural and Physical Sciences, Business and Management, Mathematics, Performing Arts, Languages

Italy

AMERICAN UNIVERSITY OF ROME

www.towson.edu/studyabroad/

Italian Language and Culture, Humanities, Social Sciences, Business and Economics, Fine Arts

STUDIO ARTS CENTER INTERNATIONAL (SACI)

www.iie.org/pgms/saci

Italian Language and Literature, Studio Arts, Art History and Conservation, Humanities

Japan

KANSAI GAIDAI UNIVERSITY

www.kansai-gaidai-u.ac.jp

Japanese Language, History, Business and Economics, Religion, Social Sciences, Literature, Art

Russia

ST. PETERSBURG ELECTROTECHNICAL INSTITUTE

www.eltech.ru/engl/_main.htm

Russian Language, Public Relations

ST. PETERSBURG STATE CONSERVATORY

www.conservatoire.spb.ru

Russian Language, Music, Dance

United Kingdom

BRUNEL UNIVERSITY

www.brunel.ac.uk

Liberal Arts and Sciences, Education, Health Professions, Music and Modern Drama

DARTINGTON COLLEGE OF ARTS
www.dartington.ac.uk
 Theatre

DeMONTFORT UNIVERSITY
www.dmu.ac.uk
 Asian and American Studies, Performing and Fine Arts,
 Design, Languages, Humanities, Media Studies, International
 and American Studies, Education

MIDDLESEX UNIVERSITY
www.mdx.ac.uk
 Art and Design, Business, Management and Economics,
 Performing Arts, Humanities, Music, Education, Languages,
 Geography, Biological and Environmental Sciences, Health
 and Social Sciences, Mathematics and Science

UNIVERSITY OF SUNDERLAND
www.sunderland.ac.uk
 Fine Arts and Communication, Natural and Health Sciences,
 Business Studies, Education, Environmental Studies, Social
 and International Studies

Multiple Countries

AMERICAN INSTITUTE FOR FOREIGN STUDY
www.aifs.org
 Most Fields of Study

BEAVER COLLEGE
www.beaver.edu/cea
 Most Fields of Study

BUTLER UNIVERSITY
www.butler.edu/www/isa
 Most Fields of Study

COUNCIL ON INTERNATIONAL EDUCATIONAL
 EXCHANGE
www.ciee.org/index.htm
 Most Fields of Study

FROSTBURG STATE UNIVERSITY
www.frostburg.edu/admin/cie/stdyabrd.htm
 Selected Fields of Study

INTERNATIONAL STUDENT EXCHANGE PROGRAM
www.isep.org
 Most Fields of Study

SCHOOL FOR INTERNATIONAL TRAINING
www.worldlearning.org
 Experiential-based Fields of Study

ST. LOUIS UNIVERSITY MADRID CAMPUS
www.slu.edu/colleges/madrid

TOWSON UNIVERSITY FACULTY-LED PROGRAMS
www.towson.edu/studyabroad
 Short-term summer and Minimester programs in various
 countries led by a Towson University faculty member.

UNIVERSITY OF MARYLAND, COLLEGE PARK
www.inform.umd.edu/INTL/studyabroad
 Offers study abroad programs in a wide variety of locations and
 disciplines.

The length of programs varies from one semester to a year, Minimester or during the summer. Many programs focus on specific academic disciplines, while others emphasize language study, independent study or an internship combined with traditional course work. Academic credit can be applied toward fulfilling requirements and electives for degree programs.

University financial aid may be applied to all TU study abroad and exchange programs. The following scholarships are available for study abroad through Towson University: Institutional Study Abroad Scholarship, CLA International Student Exchange Scholarship, National Security Education Program. Contact the Study Abroad Office for information.

Each semester, biweekly group advising sessions are conducted by the Study Abroad Office to provide students with preliminary information about overseas study opportunities and procedures. Call the office at 410-830-2451, or visit our Web site for the current schedule of sessions. Students should attend a group advising session at least one year prior to their intended study abroad experience. Study abroad advisers are available by appointment to meet with students who have attended a preliminary advising session. During an advising appointment, students can expect to receive information and advice on study abroad program options and how to choose an appropriate program, as well as financial aid and scholarship information, specific course information, transferring credit, registration, housing, etc. Students are also advised on how to obtain passports, visas, the International Student Identification Card and other necessary travel documents. Pre-departure orientation sessions are conducted each semester for students who have been accepted to a study abroad program. Students are required to attend these informative sessions which address many critical issues such as health, safety, travel and culture shock. The office maintains a resource area for students with program/course catalogs, videos, scholarship and financial aid resources, travel guides, and miscellaneous international publications.

For further information, contact a study abroad adviser at 410-830-2451, or visit the office to pick up an information packet.

NON-TRADITIONAL UNDERGRADUATE PROGRAMS

OFFICE

Enrollment Services Center, room 223
 Phone: 410-830-2471, 410-830-2022

The Office for Non-Traditional Undergraduate Programs oversees the following programs and services: Non-Degree Student Enrollment, Teacher Certification, Second Bachelor's Degree, Dual Career Program, Golden I.D. (senior citizen tuition waiver), and Credit for Prior Learning.

The academic policies described in the Admissions, University Curriculum, and Academic Regulations sections of this catalog apply to students in the above programs unless otherwise specified.

Admission

Admission is the official acceptance of a student as a degree candidate by the TU Office of Admissions or the Second Bachelor's Degree Office. Registration is the enrollment in courses for a particular semester. Persons who meet the criteria for non-degree enrollment (outlined below) may register for courses without formal admission to the university. Eligibility requirements for formal admission and deadlines are detailed in the Admissions section of this catalog.

Non-Degree Students

Students who wish to enroll as non-degree students (not formally admitted by the university) must complete and submit an Enroll-

ment Form to the Office for Non-Traditional Undergraduate Programs before registering. Persons who have been denied admission to TU because of academic ineligibility are not permitted to attend as non-degree students. They may, however, transfer to Towson University after attending another college or university if they meet TU's transfer admission requirements (see *Guidelines for Transfer Admission* in this catalog). Persons who have graduated from high school *within the last two years* are not eligible to attend TU as a non-degree student during the fall or spring semesters. They must formally apply for admission through the Office of Admissions.

Non-degree students who eventually wish to earn a degree at Towson University should be aware of the following policies. No exceptions will be made to these policies.

1. You will be assigned the catalog that is in effect at the time you are formally admitted, and you must complete the requirements listed in that catalog. Please note: It is to your benefit to be formally admitted as soon as you are eligible.
2. You must complete a minimum of 30 credits in residence at TU.
3. You must complete at least 15 credits at TU as a *degree candidate*.
4. Transfer credits earned at another institution will not be evaluated until you are formally admitted as a degree candidate. Therefore, academic advising received prior to formal admission will not be considered binding by Towson University.

Non-degree students are expected to maintain the following Cumulative Quality Point Average (CQPA) based on EHRS (earned hours) or QHRS (quality hours) whichever is higher:

<u>Credit hours</u> (includes Towson credits only)	<u>Minimum CQPA</u>
30 -59.5	1.75
60 and above	2.00

Students who fail to meet the criteria for good academic standing outlined above will be sent a letter of warning. After being warned, if students do not maintain good academic standing in *any subsequent semester*, their enrollment will be permanently discontinued.

Non-degree students may apply for formal admission as degree candidates after earning 30 credits with a 2.25 *cumulative* Quality Point Average. Advising is available through the Office for Non-Traditional Undergraduate Programs, the Academic Advising Center, and the Office of Admissions.

International students who are on a visa of any type may not enroll as non-degree students without written permission from the International Student and Scholar Office. Non-native speakers will be tested in English and placed in remedial English courses if needed.

Teacher Certification

Students who already hold a baccalaureate degree and wish to take courses (including student teaching) to become certified to teach in the state of Maryland should contact the Center for Applied Skills in Education (CASE), located in Hawkins Hall, room 302B, 410-830-2567. Students must complete a Teacher Certification Enrollment Form and an Information Form in order to register. Both forms are available in the CASE Office and should be submitted to the Office for Non-Traditional Undergraduate Programs. Certification students will be advised by the appropriate department in the College of Education.

Students taking courses for recertification *do not* need to file an application with the CASE Office. They only need to file the Non-Degree Enrollment Form with the Office for Non-Traditional Undergraduate Programs (see section above on Non-Degree Students).

Second Bachelor's Degree

The Second Bachelor's Degree Program is designed to meet the needs of college graduates who wish to attain proficiency in another major field. To qualify for admission, students must hold a baccalaureate degree from a regionally-accredited institution.

A maximum of 90 transferable credits of undergraduate course work will be applied toward the second bachelor's degree. In addition, students must complete a minimum of 30 credits in residence at TU and meet all the requirements of the "new" major. At least one-half of the "new" major credits must be completed at Towson *since the completion of the first degree*. Each student must complete an advanced writing course. All other General Education requirements are considered to have been met through the first degree.

Those interested in learning more about the program or receiving an application should call 410-830-2471. Deadlines for fall and spring admission are June 15 and November 15, respectively. Some screened/competitive majors have earlier deadlines and separate applications.

Second bachelor's degree candidates may qualify for departmental honors, the Dean's List, and/or graduation with honors. Please refer to the Academic Regulations section of this catalog for criteria.

Dual Career Program

The Dual Career Program is for post-baccalaureate students who wish to pursue a second bachelor's degree or an undergraduate certification in teaching while enrolled in a master's degree program at Towson University. Students who are interested in taking graduate and undergraduate studies in different fields at the same time should contact the Office for Non-Traditional Undergraduate Programs, 410-830-2471, for further information.

Golden I.D. Program: Senior Citizens

Retired Maryland residents, 60 years of age or older, are eligible for the Golden I.D. senior citizen tuition waiver program. Golden I.D. students may enroll in a maximum of three courses in the fall and spring semesters (and two courses in the summer session) and pay only a university fee. Golden I.D. students may take courses for audit or credit on a space-available basis (special format courses are excluded). To apply for a Golden I.D. card, or to register for any semester, stop by the Office for Non-Traditional Undergraduate Programs in the Enrollment Services Center.

Credit for Prior Learning

TU recognizes that some students may have acquired abilities and/or in-depth knowledge through life experience, personal study, and/or military course work. The Credit for Prior Learning (CPL) Program offers an opportunity for students to receive college credit by taking "challenge" tests in the area of their proficiency, presenting portfolios, and providing documentation of military course work/experiences.

A maximum of 45 credits for "non-traditional learning" may be granted with a grade of PE through the Credit for Prior Learning Program (this includes any CLEP credit granted in transfer). CPL credits can be used to fulfill GURs/GenEds, electives, and/or major requirements. Students must be a degree candidate with at least a 2.00 cumulative QPA to have CPL credits recorded on the TU transcript. Please note that some academic departments may accept a lower maximum number of CPL credits toward the major. Please check with the major department first, to find out if such restrictions exist.

Different ways to earn CPL credits at Towson University are described below:

Departmental Exams

TU offers departmental "challenge" exams in Biology, Chemistry, Economics, Health Science, Mathematics, Modern Languages,

Music, Nursing, Physical Education and Psychology. Students' achievement in a particular test must be equal or superior to that of students having earned a grade equivalent of 2.00 or higher. Although departmental standards for granting credit may exceed this minimum, credit may not be granted when achievement is below 2.00 level work. Departments may also offer advanced placement with no credit given based on an individualized assessment.

CLEP (College Level Examination Program)

TU offers, and grants credit for, the following General and Subject CLEP tests:

General CLEP — Humanities, Mathematics, Natural Science, and Social Science/History

Subject CLEP — Accounting (ACCT 201, 202), Business Law (LEGL 226), Marketing (MKTG 341), Management (MNGT 361), Biology (BIOL 110), Freshman Composition (ENGL 102), American Literature (ENGL 230 and 3 elective credits), English Literature (ENGL 221, 222), Educational Psychology (PSYC 201), and Sociology (SOCI 101). For information regarding the minimum passing scores for CLEP tests, call 410-830-2471.

Individualized Assessments

Students who wish to earn credit for courses which do not have standard departmental or CLEP exams may contact the academic department to determine if individualized assessment is possible. This type of assessment may include portfolio review, oral or written examination, demonstration (e.g., dance or music), or written report/paper.

Military Course Work/Experience

TU is a member of Servicemembers Opportunity Colleges (SOC). Students who have served or are currently serving in the United States military may receive college credit for basic training, military occupational specialties, and other military course work. Official documentation must be submitted. Work will be evaluated per the *Guide to the Evaluation of Educational Experiences in the Armed Services* by the American Council on Education (ACE).

For further information on the Credit for Prior Learning Program, call the Office for Non-Traditional Undergraduate Programs, 410-830-2471.

MILITARY SCIENCE PROGRAMS

Towson offers students who are interested in officer training for the military several opportunities to pursue that training.

Reserve Officers' Training Corps (ROTC) Credit

TU will accept transfer credit hours earned from a recognized ROTC Program sponsored by an accredited college or university. Such credits will be considered upper- or lower-level credits as defined by the transferring school, and are applicable as elective credits toward a TU degree. ROTC credits are considered to be non-traditional credits and are part of a maximum of 45 non-traditional credits allowed by academic policy.

U.S. Army Reserve Officers' Training Corps (ROTC)

Towson University offers Army ROTC to its students through a cooperative agreement among Loyola College, TU, and the U.S. Army.

The primary objective of the ROTC Program is to prepare selected students with potential to serve as commissioned officers in one of the three components of the U.S. Army—Active Army, National Guard and Army Reserve. The program is totally voluntary and is conducted in two phases—the basic course and the advanced course.

The basic course is taken in the freshman and sophomore years. No military commitment is incurred during this time, and students may withdraw, as with any other course, through the end of the second year. The basic course is available as an elective to all qualified students.

TU students who decide after either their freshman or sophomore years that they are interested in the ROTC Program may attend a special ROTC Basic Camp. This camp will fully substitute for the first two years of on-campus study. This camp is held for six weeks during the summer, and all participants receive pay and allowances.

Normally, students must have a minimum of two years of college remaining before graduation in order to join ROTC. However, on a case-by-case basis, students who will commit themselves to attending graduate school in order to meet the two-year requirement may be permitted to enroll.

Except for veterans, the basic course or a basic camp must be successfully completed prior to entering the advanced course.

The advanced course is normally taken in the final two years of college. A paid, six-week advanced camp is held during the summer between the junior and senior years.

Army ROTC graduates may serve three or four years, or an entire career on active duty, or request Reserve Forces Duty (RFD) and serve as little duty as three months on active duty. The remainder of their obligation is spent in the Army Reserve or the Army National Guard where they assume roles equally important to those of their active duty counterparts.

Specialized branch assignments are made in the students' senior year which will determine the nature of their duties once they are commissioned. These specialized assignments are based largely upon students' majors and personal preferences.

Prior to graduation and commissioning, the senior student will make known personal preferences regarding the geographical area of the world in which he or she desires to serve his or her first tour upon entering the active Army.

The Army awards scholarships on a competitive basis to outstanding young men and women who are interested in serving in the active or reserve components of the U.S. Army. Details of the ROTC scholarship program are available from the Office of Financial Aid. All TU students are eligible to apply.

Enrollment for ROTC is done through the Military Science Department at Loyola College. Contact the Military Science Department at 410-617-5043 for class days and times. Generally, freshmen and sophomores have classes on Monday and Wednesday afternoons at Towson. Juniors and seniors attend classes at Loyola on Tuesday and Thursday afternoons.

Air Force ROTC

Air Force ROTC is available to students at Towson University through an agreement with the University of Maryland, College Park. Air Force courses are scheduled so that students from Towson University may complete most AFROTC requirements during one morning per week at the College Park campus. In addition, students at Towson are eligible to compete for all AFROTC scholarships; 4-, 3-, and 2-year scholarships pay for total tuition and fees at both the University of Maryland and Towson University, for all required books, and provide a \$100 per month subsidy for both pilot and navigator training programs. Upon graduation from Towson University and completion of the AFROTC curriculum at the University of Maryland, students will be commissioned second lieutenants in the Air Force. Students who are interested in the Air Force ROTC can contact: Air Force ROTC, Det. 330, Cole Field House, Rm. 2126, University of Maryland, College Park, MD 20742; telephone: 301-314-3242/3243/3245.

Academic Regulations

An education from Towson University includes a broad liberal arts base and a strong knowledge of one or more major fields of study. To ensure that the Towson degree continues to have weight and meaning, and that it signifies student work meeting or exceeding a particular level of excellence, the university insists that certain standards and policies apply to all undergraduate students. These policies are published every year in this catalog, and any revisions are effective as of the date of the catalog's publication (unless otherwise stated).

The Academic Standards Committee, comprising faculty, administrators and students, meets regularly to formulate policy and to review appeals from students asking for exceptions to policies.

Students who wish an exception must appeal in writing to the Academic Standards Committee, c/o Enrollment Services Center. Appeals must be written by students. Letters received from third parties will be honored only as support of students' appeals. Letters of appeal should be as brief as possible, concise, and must include all pertinent academic information, including, when appropriate, supporting documentation. All appeals receive a written response from the committee.

This section will explain the policies and regulations that govern academic standards at Towson.

DEFINITIONS OF TERMS

A **credit** is the unit given to one 50-minute class (or its equivalent) meeting weekly for a semester. This means that a class meeting Monday, Wednesday and Friday from 9 to 9:50 a.m. or Tuesday and Thursday from 8 to 9:15 a.m. will be a 3-credit course. Most classes fit this format. Classes that require laboratory or studio time in addition to lecture time will usually merit an extra credit, becoming 4-credit courses, just as those requiring less class time will merit fewer credits. The *Schedule of Courses* lists the number of credits each course carries. Faculty expect students to spend at least two hours reading, writing and doing research outside of class for each hour spent in class.

A **semester** is 14 weeks of instruction, exclusive of final examinations. The work covered in one college semester is approximately equal to that done in one year of high school.

Semester of Study. Each semester in which students register and do not cancel or withdraw before the first day of classes counts as a semester of study. Verified withdrawal for medical reasons or entry into the Armed Forces will not count as a semester of study.

Minimester is an intensive condensed term in January that allows students to take a course that lends itself to a highly focused format (15 hours of instruction each week) to discuss ideas that interest students or that may fill a gap in their requirements. Students may take a *maximum* of 4 credits in this term.

The **Summer Term** is made up of four sessions of varying lengths, including an evening session, that allow students to complete regular course work in a shorter period of time and fulfill degree requirements sooner. Students may take a maximum of 9 credits in any one session and a maximum of 15 credits in all sessions combined.

Credit-Hour Load. In a regular fall or spring semester students take about 15 credits (five, 3-credit courses). In the Minimester, students may take a maximum of 4 credits. Students may

register for a maximum of 15 credits during the summer, but they may not take more than 9 credits during any one session.

To be considered full-time, undergraduate students must be enrolled in a minimum of 12 credit hours each term. For graduate students, the minimum is 9 credit hours each regular term.

Excessive Credit Hour Loads. Degree candidates (formally admitted matriculated students) who have a 2.00 Quality Point Average (QPA) will be able to register for 19 credits in a semester, and students who have at least a 3.25 cumulative QPA based on at least 30 hours taken at Towson are eligible to carry up to 20 credits. Seniors in their last semester who have at least a 2.50 cumulative QPA and need 20 credits to graduate will be able to take that number. Students whose cumulative QPA is 3.50 or higher based on 30 quality hours are eligible to take 21 credits.

Degree candidates who do not meet the criteria above but wish to carry over 19 credits must obtain permission from Enrollment Services *before* registering for the excess.

Quality Hours and Quality Point Averages. These terms will be discussed in *Grading*, found later in this section.

Prerequisites. Prerequisites are requirements imposed by an academic department for certain courses within its curriculum. Such requirements may include, but are not limited to, other courses, a specific Quality Point Average, or class standing, (e.g., junior, senior). Prerequisites may also include successful completion of screened requirements, where applicable, or successful completion of a specific test or examination, either departmental or standardized, where applicable. Prerequisites may also include department or instructor permission in addition to, or in lieu of, specific course, testing, or class standing requirements.

Departments are responsible for enforcing prerequisites. Students are advised to read carefully course descriptions found in the *Undergraduate Catalog* and to make sure they have met any prerequisites *before* registering for courses. Students who remain in courses without having met prerequisites, with or without the permission of the instructor, do so at their own risk. Failure to meet prerequisites and withdraw from a course by the published deadline is not a basis for petitioning the Academic Standards Committee for an exception to academic policy.

ENROLLMENT AND REGISTRATION

Students who have applied for admission to degree candidacy and have been admitted must return their Enrollment contract to acknowledge their acceptance of the university's offer of admission. After they do this, they will receive information about academic advising and course registration. Orientation is available to new freshmen and transfer students prior to the beginning of the semester. The process in which students select courses and have those courses entered into the computer is called registration.

Each semester after admission, all degree candidates receive a letter approximately one month before registration telling them the date they will register (determined by the number of credits they have earned). Students are encouraged to see their adviser before they register. Students who have no adviser may check with their major department or, if they have no major, with the Academic Advising Center (Lecture Hall, 410-830-2472).

After students have met with their advisers, they plan their schedules according to the times listed in the *Schedule of Courses*, and they complete the Course Request Form contained in the *Schedule of Courses*. On their date to register, they may go to the Enrollment Services Center, room 223, or

they may call the number listed in their registration letter to register by phone. First-year students must meet with an adviser before they will be allowed to register. Non-degree students (those not formally admitted to the university) are encouraged to seek advising at least once each academic year.

Important. Students may not attend class until they register for that class, and they must discharge all financial obligations to the institution before they register.

All students may select standard format courses (those meeting according to a published schedule), or they may select special format courses.

Special Format Courses

Directed readings, independent study, and colloquia are examples of special format courses. Students may not apply more than 12 credit hours of special format courses toward graduation. Departments may set limits for fewer credit hours, but they may not exceed the maximum of 12 credit hours set by the University Curriculum Committee. Because of the concentrated nature of these courses, students should be advised to take no more than 6 hours of upper-level special format courses per semester.

Directed Independent Study

The Directed Independent Study Program at Towson is designed for part-time students who wish to undertake college studies but who are unable to attend classes on campus or who have learning styles that lend themselves to independent work. Courses offered are from the standard curriculum but do not require regular class attendance. An additional tuition and/or fee surcharge may be assessed.

Procedure

After registration, directed independent study students should contact the respective department chair for assignment of an instructor. *It is the student's responsibility to contact his or her instructor.*

Students will be given a course of study and work independently to achieve its objectives, meeting four times with the instructor during the course. Study guides, textbooks and other materials appropriate to the course will assist students in their courses of study.

These courses are for degree credit and may be taken by anyone who has a high school diploma or equivalency and is capable of doing college work.

This program is not to be confused with courses listed in the *Schedule of Courses* as "directed reading" or "independent study," which are advanced courses with variable content and credit, primarily for seniors focusing on a specific topic or issue.

Pass Grading Option

Students may elect to be graded on a Pass basis for 8 hours in a single semester/term and a maximum of 12 hours toward their degrees. If students register for more than 8 hours under this option in one semester, only 8 will apply toward graduation. This option is *not* available for courses required toward a major, minor, or for certification in teacher education unless special permission is obtained from the department chairperson. Students must make all declarations or changes to the option before the published withdrawal deadline each term. See the academic calendar in this catalog and the *Schedule of Courses* for Minimester and summer sessions for specific deadlines applicable to those sessions. In order to elect this grading option, students must complete a Change of Schedule Form in the Enrollment Services Center, room 223.

Students electing this option must earn a grade equivalent of 2.00 or higher in order to receive the Pass (PS) grade, which is

not calculated in the average. Students who earn below the grade equivalent of 2.00 will earn that grade, which will calculate. Refer to Grades/Grading for more information.

Auditing Courses

Students may audit a course with the permission of the instructor. An audited course will be graded AU and will not apply toward the degree. Students may elect the audit option at any point up to the withdrawal deadline by presenting a completed Change of Schedule Form with the instructor's signature to Enrollment Services Center. If students then choose *not* to elect this option, they must follow the same procedure, including obtaining the instructor's signature, to *remove* the option up to the withdrawal deadline. Students paying full-time tuition and fees are not charged additionally for auditing. For other students, tuition and fees vary according to the credit value of the course (e.g., 3 credits = 3 x tuition rate per credit hour + appropriate fees).

Students are advised that audited courses

- do not count as part of the semester's credit hour load
- do not count as part of the semester or cumulative totals
- do not apply toward graduation unless repeated later for credit
- will be graded AU
- will be graded AUX if the student registers for a course as an audit and fails to attend
- may not be used to repeat a course for which credit has already been earned

CHANGING A SCHEDULE

All changes in students' schedules of classes (adding or dropping a course or change in sections, credits or grading option) are valid *only* if students complete a Change of Schedule Form and file it with Enrollment Services. Students who do not complete the Change Form and turn it in by the deadline (published each semester in the *Schedule of Courses*) will not receive credit for classes attended, but not formally added. A grade of F or FX will be recorded in courses not formally dropped.

Please refer to the *Schedule of Courses* for information on making schedule changes by telephone.

Adding a Class. Students may add classes to their schedules during the first week of classes using a Change of Schedule Form (available in departmental offices or from Enrollment Services). Because each department has different procedures for adding classes (some require faculty signature and departmental stamp; others only a stamp), students need to check the *Schedule of Courses*, which outlines the procedures each semester.

Students may not enter a class after the change of schedule period (first week of classes) ends. Exceptions are considered only with written authorization from the department chair.

Dropping a Class. Students may drop a class up to the deadline published in the *Schedule of Courses*.

- If they drop during the change of schedule period (the first week of classes), no grade is recorded.
- If they drop courses after the change of schedule period but within the withdrawal period, a grade of W is recorded on the transcript. There is no academic penalty associated with the W.

Students who do not officially drop courses during the established time periods receive grades in the courses (A to F or FX) as determined by the instructors.

Withdrawal. Students with *documented* medical problems or *verified* circumstances beyond their control should come to

Enrollment Services Center, room 223, to withdraw without academic penalty or to reduce their course load after the established deadline. Documentation *must* accompany the request. If the request is approved, a grade of W will be recorded. *Requests must be submitted prior to the beginning of final examinations.*

Sometimes new students who have not yet begun classes decide not to attend (cancellation), or continuing students need to withdraw completely from the university (withdrawal).

A. Cancellation of Enrollment. Newly admitted undergraduate students who decide not to attend the university before the first day of classes of the semester for which admission was approved *must* notify the Office of Admissions in writing. Their admission file will be canceled accordingly, and they will be required to submit an additional application for any future entrance date.

B. Selective (Course) Withdrawals. Students may request selective withdrawals (while maintaining enrollment in other courses) after the withdrawal deadline by coming to Enrollment Services Center, room 223. All such requests, accompanied by appropriate documentation, must be received prior to the beginning of final examinations. Those received after this point must be presented to the Academic Standards Committee. Appeals for retroactive selective withdrawals (i.e., received after final examinations begin) are rarely granted. For information on complete retroactive withdrawals, refer to item C below.

C. Complete (University) Withdrawals. Complete withdrawals are more likely to be given consideration. Appropriate medical documentation *must* accompany all requests.

Degree candidates who wish to withdraw from the university should obtain an official Withdrawal Form from Enrollment Services Center, room 223, complete the necessary information, and submit it to that office.

If a semester is in progress, students who withdraw after the last date to drop a course with a grade of W will earn the grade of F or FX unless the withdrawal is for medical reasons or other extenuating circumstances.

D. Re-entering the University. Previous degree candidates who have missed one semester or more must apply for readmission through Enrollment Services. Forms are available in the Enrollment Services Center, room 223. The deadlines for readmission are August 1 for the fall semester and December 1 for the spring semester.

Readmitted students must comply with the GURs/GenEds that were published in the *Undergraduate Catalog* at the time they were originally admitted to Towson, provided no more than 10 years have elapsed.

Students who withdraw from the university, enroll elsewhere, and return to Towson after having completed transfer course work *cannot* qualify for a transfer option (pre-1996 catalogs) or a transfer package (1996 and later catalogs). This option is available only upon initial admission. (Refer to the Admissions section of this catalog.)

Students who officially withdraw must comply with the competency standards (required developmental courses) in effect at the time of readmission if the standards were not met prior to withdrawal.

CLASS STANDING

Students are classified according to the number of credit hours earned:

Freshman	0-29.5 credit hours
Sophomore	30-50.5 credit hours
Junior	60-89.5 credit hours
Senior	90 credit hours and above

CLASS ATTENDANCE/ABSENCE POLICY

1. Students are expected to attend all classes. Consistent attendance offers the most effective opportunity for students to understand concepts, materials and expectations of those courses in which they are enrolled. Although some courses do not use attendance as a criterion for grading, there are others where in-class participation is an integral part of the course. Examples include, but are not limited to, seminars and courses that require public speaking, laboratories, language learning, group discussions or student teaching. Frequent absences from these types of courses, whether excused or unexcused, may affect the final grade.

Faculty who use absences as a factor in grading must explain in the course syllabus what effect even an excused absence might have on the evaluation of a student's work.

2. It is policy of the university to excuse the absences of students for the following reasons:

- illness or injury when the student is unable to attend class
- religious observance where the nature of the observance prevents the student from attending class
- participation in university activities at the request of university authorities (e.g., Intercollegiate Athletics, Forensics Team, Dance Company, etc.)
- compelling verifiable circumstances beyond the control of the student.

Students requesting an excused absence must provide documentation to the instructor two weeks prior to the scheduled absence when known in advance or as soon as possible when not known in advance.

3. Absences that do not fall into any of the categories outlined in item number two are unexcused. Faculty may set a limit on the number of unexcused absences.

4. Students who are absent from class are responsible for any missed work, assignments, or assessments (e.g., quizzes, tests, papers, etc.). Faculty members are required to allow students with documented excused absences to make up missed work or assignments when this is feasible. When the nature of the assignment makes this impossible, faculty members should attempt to make a reasonable adjustment of the assignment.

Students who will be representing TU at events, conferences, or other official activities should obtain a Notification of Absence from Class Form from the Office of Student Activities, University Union, room 217, to be given to their instructors to verify the excused absence. Students are encouraged to notify faculty of anticipated class absences as soon as they learn they will be missing class. Faculty should use their discretion regarding making up missed assignments and the ramifications of missing certain class periods.

Important! Students who fail to appear for the first two class sessions, or the first session of evening classes, may forfeit their spaces in class. Instructors have the right to release these spaces to other students wishing to add the class to their schedules. Students who lose their spaces *must* officially withdraw from the course through Enrollment Services to avoid earning an FX grade for non-attendance. See the sections on Changing a Schedule and Grades/Grading for further information.

GRADES/GRADING

The Plus/Minus Grading System (4.00 scale, semester system), implemented in fall 1998, applies to all undergraduate students and cannot be applied retroactively to grades earned or recorded, including incomplete (I) grades or contested grades, before fall 1998.

Grade	Quality Points Per Credit Hour
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
F	0.00
FX	0.00

Quality Point Averages

The semester Quality Point Average (QPA) is computed in a three-part process: First, multiply the credit hours (quality hours) for each course taken in a semester by the quality points assigned to the grade earned in each course (see above). Second, total the quality hours and quality points for all courses taken in the semester. Third, divide the total number of quality points by the total number of quality hours to find the QPA.

The grades of S and U (satisfactory and unsatisfactory) are used primarily in those courses offered for development and selected courses that have been recommended by the academic departments and approved by the Academic Standards and University Curriculum committees. The grade of S denotes that work of 2.00 level or higher has been completed and that students have attained a level of competence sufficient to advance to the next course. A grade of U is given to students whose work is below 2.00 level quality. S and U grades are not calculated in students' QPAs.

The grade of PS (Pass) is assigned to a course selected on the Pass grading option when students earn a C grade or higher. Students who elect the Pass grading option and earn a grade of C- or below will have that grade recorded on the permanent record and used in calculation of the QPA.

The grade of PE is assigned to those courses passed under the Credit for Prior Experience/Learning option. All grades are recorded on students' permanent records, but are not calculated in students' QPAs.

The grade of FX is calculated in students' QPAs. A grade of FX is given to students who never attend class or who stop attending during the semester without officially withdrawing. (If students have officially withdrawn, a grade of W will appear on the final class roster.) A grade of FX is given to students who stop attending before they have completed more than half of the course work. Students who attend most classes but miss the final examination without a legitimate excuse, will receive a zero or F grade for the final examination and have that value or grade calculated with other grades earned during the semester to determine the final grade.

The grade of W is administrative, nonpunitive, and is not calculated in students' QPAs. A grade of W is given to students who officially withdraw from a course by the published withdrawal deadline each term. It is also given to students who obtain authorization, either through Enrollment Services or from the Academic Standards Committee, to withdraw from a course or courses after the deadline. Such withdrawals must be

based on documented medical difficulties or verifiable circumstances beyond students' control.

The grade of I is given to students by their instructors when verifiable circumstances prevent students from completing a course within the term. The I grade should be given only in cases where students have completed most of the term and have a reasonable expectation of successfully completing the work required. It should not be given at a point earlier in the term when a withdrawal is appropriate. For more information on the Incomplete grade, see the section immediately following.

Changing Grades and Changing Incompletes

Incompletes may be granted toward the end of the term and only for verifiable medical reasons or for documented circumstances beyond the control of the student. Earlier in the term, a withdrawal may be more appropriate. *The grade of I automatically becomes a grade of F at the end of the first full semester following the granting of an I unless changed to another letter grade.*

The grade of I may be extended by the instructor for a period not to exceed an additional regular semester if the conditions for granting the original Incomplete still verifiably exist. To grant this extension, the Change of Grade/Incomplete Form must be used.

Although not part of the formal Incomplete grading option, as approved by the Academic Standards Committee, Incomplete Grade Agreement Forms may be used by faculty to establish a specific time by which students must complete the work for a particular course. This form may be used to supplement the issuance of the Incomplete grade on the Final Grade Roster. It allows faculty to designate a time prior to the end of the following semester of study for the course work to be completed. These forms are available from each department's secretary and are to be retained by the faculty member with a copy being issued to the student. Faculty members using the Incomplete Grade Agreement Form should also note on the Final Grade Roster the actual date by which the work is due (e.g., work due on July 1).

It is the student's responsibility to complete the work required by the end of the next regular semester (fall, spring) in order for the Incomplete to be converted to a regular grade. *Students do not repeat the course in which the Incomplete was given.* Instructors may specify an earlier time by which the work required is due in order to remove the Incomplete. An Incomplete grade that is not resolved by the end of the next full semester of study, excluding summer and Minimester sessions, is converted to an F grade and is calculated in students' quality hours and QPAs.

Grade changes, excluding I grades and repeated courses, must be submitted by the faculty member within one year. After one year, requests for grade changes may be made only for verifiable medical reasons and by petition to the Academic Standards Committee.

Graduating seniors must resolve any outstanding Incomplete grades within six weeks after their date of graduation. Specific dates for each graduating class are included in the correspondence from the Graduation Office.

Unsuccessful Semester/Academic Clemency The following guidelines determine approval of the declaration of an Unsuccessful Semester:

- Five full academic years must have elapsed since the semester in question.
- Students must have completed at least 24 credit hours of 2.00 level work at Towson University since the semester in question.

- Only one unsuccessful semester can be granted in a student's academic career.

Disagreements Related to Grading. Students who feel an earned grade is unjust must address their disagreements first to their instructor, who is primarily responsible for assigning grades. If the matter is not satisfactorily resolved through this approach and the issue warrants further consideration, students may then direct an appeal through the following channels: department chair/program coordinator, college dean, Division for Student Life.

REPEATING COURSES

When courses are repeated, students will receive credit for the course only once. Only the higher of the two grades will be calculated in the Quality Point Average. The lower grade will remain on the record with the letter R preceding (e.g., RF, RX, RD, etc.) to indicate the course has been repeated.

Students may not make a third attempt of a course except with *prior* approval. Students must complete a Petition for a Third Attempt Form and submit it to Enrollment Services Center, room 223) before registering for the course. Grades of W are administrative and are *not* considered as part of the repeated course procedure. Courses that have been accepted previously as transfer credit by TU or have been attempted or completed for credit at TU may *not* be repeated at other institutions.

Courses in which low or failing grades were earned at Towson **MUST** be repeated at Towson in order for the record to be adjusted and the QPA to be recalculated. Grades earned at other institutions in courses for which grades were first earned at TU *do not* adjust grades earned at Towson, nor do they alter the cumulative QPA.

GOOD STANDING AND SATISFACTORY ACADEMIC PROGRESS

Students are considered to be in good academic standing and making satisfactory academic progress toward the degree if they are permitted to continue enrollment at the university based on the guidelines below. Students who have been academically suspended and are later readmitted on probation are not considered to be in good academic standing and *might* not be eligible for participation in intercollegiate athletics, financial aid, housing or certain extracurricular activities.

To remain in good academic standing, students must possess a minimum cumulative Quality Point Average based on the number of earned hours (EHRS) or the number of quality hours (QHRS) attained, whichever is higher, as indicated below:

MINIMUM QUALITY POINT AVERAGE REQUIRED

Credits (includes Towson credits and accepted transfer credits)	Minimum QPA
1-29.5	1.50
30-59.5	1.75
60 and above	2.00

FAILURE TO REMAIN IN GOOD STANDING

Students who fall below the level required for good academic standing are subject to the following actions:

1. **Academic Warning.** The first time degree candidates fail to attain the minimum Quality Point Average required, according to the above table, they receive an academic warning and must receive additional academic advising. They *must* attain the minimum QPA required by the end of the next semester of attendance or be academically suspended. If no further action is taken, the notice of academic warning

will be removed from students' academic records upon graduation. Eligibility for housing, financial aid, and participation in intercollegiate athletics will be determined by the appropriate departments according to their established criteria. In accordance with policy, students who are readmitted on warning must also attain the minimum required QPA by the end of the semester of readmission or be academically suspended.

Regardless of cumulative QPA, freshmen and sophomores on academic warning who earn at least a 2.00 semester average based on at least 12 quality hours will be automatically continued on warning for one semester.

2. **Academic Suspension.** Students failing to attain good standing in any semester following academic warning are academically suspended and may not attend the university for one semester and the intervening summer/Minimester sessions.

If students complete course work elsewhere while on suspension, Towson will *not* accept that work. Work remaining to resolve any Incomplete grades may be completed during suspension. Academic suspension is noted *permanently* on students' academic records.

3. **Academic Probation.** After the suspension ends, students may be readmitted on academic probation, during which time they may enroll for a maximum of 13 credits per semester. They must also receive additional advising and may not register without written clearance from the Academic Advising Center. Academic probation is noted permanently on students' academic records.

Students on academic probation have three academic years or an additional 24 earned/quality hours, whichever comes first, to attain good academic standing. If students attain good academic standing during probation but subsequently fall below the minimum requirements for good academic standing, they will be given a one-semester exception during which good academic standing *must* be attained. If they do not, they will be academically dismissed. Otherwise, they are considered to be on academic probation until they have either graduated or are academically dismissed (see below).

While on academic probation (not in good academic standing), students may *not* complete course work elsewhere for transfer to Towson.

4. **Academic Dismissal.** Students failing to attain good academic standing after the period of academic probation will be academically dismissed. Academic dismissal is a final action and is noted *permanently* on students' academic records. Students who are academically dismissed cannot be readmitted to the university in any capacity.

TRANSFERRING WORK TO TOWSON

For additional information, see the Admissions section of this catalog.

NOTE: Only currently enrolled degree candidates in good academic standing are eligible to transfer course work.

Policies Pertaining to Transfer Credit

1. Towson students who wish to take courses at other accredited institutions with the intent of applying those credits toward a degree at Towson must complete a Petition to Transfer Credit Form, available in Enrollment Services Center, room 223). The petition may require the signature of the chair of the department in which the equivalent course is

offered at Towson. Petitions must be completed and returned to Enrollment Services and approved by the Academic Standards Committee *before* registration for the course(s) at another institution.

2. Credit is accepted by Towson for courses completed at regionally accredited colleges or universities. Only the courses and credits completed at other institutions are transferable to Towson. Grades and Quality Point Averages earned at other institutions are *not* transferable. Credit will count toward graduation but will *not* be used in calculating the academic average required for graduation.
3. Courses transfer to Towson as they were taken at the host institution. For example, if a student completes a 200-level course at the host institution and transfers it to TU, the course will transfer as 200-level, even if the course's equivalent at TU is 300- or 400-level.
4. Courses transferred from two-year institutions *cannot* be used to satisfy the Advanced Composition degree requirement. Writing courses taken at four-year accredited institutions may be considered as meeting this requirement upon request by students for evaluation by the appropriate academic department or, where necessary, by TU's Department of English.
5. **Transfer students.** Courses that have been accepted previously for transfer credit by TU or have been attempted or completed for credit at TU may *not* be repeated at other institutions with the purpose of transferring them to TU. Courses in which a grade equivalent of 1.00 or higher has been earned at accredited Maryland institutions are transferable. However, courses in which a grade equivalent of 1.00 was earned and transferred to Towson cannot be applied toward a major or minor program. A grade equivalent of 2.00 or higher is required for major credit. Students must repeat at Towson any course previously transferred with a grade below the 2.00 level in order to meet major requirements; the number of credits repeated will increase the number of credits needed to fulfill graduation requirements. For example, if a 3-credit course that transferred to Towson University with a grade equivalent below 2.00 is repeated at Towson, the student must earn a minimum of 123 credit hours to be eligible for graduation. (See section on **Repeating Courses**.)
6. **Native students.** Courses attempted at Towson may not be repeated at other institutions with the purpose of receiving credit at TU or adjusting the Towson record. (See **Repeating Courses**.) Students may not fail a course at TU, repeat it at another college, and expect the course to transfer to the university.
7. With prior permission from the Academic Standards Committee, students may transfer up to a total of 64 credits from two-year institutions at any time until they have earned 90 credits toward their degrees at TU.
8. With prior permission from the Academic Standards Committee, students with fewer than 90 credits may take courses at an accredited four-year institution for the purpose of transfer.
9. Students are expected to complete the final 30 credits toward their degrees at Towson. Exceptions may be granted in cases of documented extraordinary circumstances. Students must petition the Academic Standards Committee to transfer work after having earned 90 credits. Petitions must be presented *before* students register for courses at other institutions.

Students with 90 or more credits seeking to transfer courses required toward the major or minor program must include with the petition a brief note from the department chair or program coordinator supporting the request and accepting the course and credits toward the major or minor.

TRANSCRIPTS OF ACADEMIC RECORDS

The Records Office can normally process a transcript request within three to five working days, except during periods of increased demand at the end of each semester, when transcript requests may take longer to process. Regular transcript requests will be processed without charge. Rush transcripts, mailed within 24 hours of the request, require a \$10 service fee. Towson requires a written request. Requests must include dates of enrollment, full name at the time of enrollment, social security number, and current address. Transcript Request Forms are available in Enrollment Services, or students may send a letter to the Records Office, Towson University, 8000 York Road (Enrollment Services Center, room 223), Towson, MD 21252-0001. A fax or e-mail is also acceptable: The fax number is 410-830-3443; the e-mail address is transcript@towson.edu.

GRADUATION

Students who have successfully completed all requirements for a Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, or Bachelor of Music degree are eligible for graduation.

There are three graduation evaluation periods: December, May and August. Ceremonies are held in January and May. August graduates are invited to attend the winter ceremony. Note, however, that attending the ceremony does not automatically denote graduation, since evaluation of records showing final grades occurs after the ceremony. You must apply for graduation in order to receive ceremony information.

Applications for graduation are available in the Graduation Office (Enrollment Services Center, 410-830-2095), or in Enrollment Services (Enrollment Services Center, room 223).

Deadlines for applying are:

May, 2001 graduation — apply by September 30, 2000

August, 2001 graduation — apply by March 30, 2001

December, 2001 graduation — apply by May 30, 2001

When students have earned approximately 75 credits, the Academic Advising Center (Lecture Hall, 410-830-2472) prepares a Junior Audit of their progress toward fulfilling GUR or GenEd requirements. Students usually have at least a year following the audit to meet any outstanding requirements. Some academic departments will do an audit of major requirements at the same time.

Important! Students must apply for graduation to begin the graduation clearance process. Refer to the **University Curriculum** and **Academic Regulations** sections of this catalog for additional graduation information.

Undergraduate Planning Guide

To help you think about the many wonderful opportunities available to you at Towson University, here is a simple planning guide.

• YEAR 1

Career Choices (see the Career Action Plan in this section)

Explore off-campus part-time and summer jobs at the Career Center.

Begin to build a career network: seek faculty, staff, alumni and peers to discuss major/career choices.

Study Abroad

There are many exciting opportunities to discover the world while you continue to earn credit at Towson. Towson students may choose to study abroad in almost any country, and in almost any subject area. Experiences that you have while overseas will give you new perspectives and will be valuable to future employers.

You can study abroad in any year after your freshman year, but it pays to start planning one year ahead.

Think about these questions:

Do you want to perfect a language you have already acquired or learn a new one?

Do you have a preference for certain countries? Will your preference mean you should take that language at Towson before you study abroad? Plan accordingly!

How long would you like to stay? Programs are available for an academic year, a semester, a summer or a Minimester.

Will you want to take courses in your major or minor, or study something completely different?

Attend a group advising session with the staff of the Study Abroad Office to see if this could be a good fit for you.

Apply for study abroad scholarships during the year before you go abroad. See your financial aid adviser early in the year before you are thinking of going abroad.

• YEAR 2

Career Choices (see the Career Action Plan in this section)

Whether you seek a job after you graduate or attend graduate school, you will need references from your professors. Develop relationships with faculty who teach subjects that interest you.

Explore requirements for a related internship in your junior year.

Study Abroad

Attend a group advising session with the staff of the Study Abroad Office to see if this could be a good fit for you.

Apply for study abroad scholarships during the year before you go abroad. See your financial aid adviser early in the year before you are thinking of going abroad.

Graduate School

Whether you plan to go on for graduate study or not, talk to your adviser or a faculty member you know about what graduate school is like and what might be the benefits of earning a master's degree or doctorate in any of the fields that interest you.

• YEAR 3

Career Choices (see the Career Action Plan in this section)

Participate in campus leadership activities and career-related organizations.

Seek major-related part-time, summer or on-campus employment.

Study Abroad

There's still time to plan for study abroad in your senior year.

Graduate School

Fall semester: Browse through a college guide, such as *Peterson's Guide*, to get a feel for the admissions requirements, curriculum, and expectations of several schools that offer graduate programs in a field of your interest.

Spring semester: Meet with your adviser in your major department to explore which schools offer the best graduate programs in your field of interest. Request admissions materials and catalogs from the three or four schools you might like to attend.

Talk to your adviser about what, if any, graduate school exams you should take for entry into a program. Once the exams are decided upon, you should take them as early as possible because several of the exams can be retaken.

• YEAR 4

Career Choices (see the Career Action Plan in this section)

Identify and research potential employers.

Plan job search strategy.

Investigate and pursue job openings. Use the resources available in the Career Center.

Career Action Plan

A satisfying and rewarding career doesn't happen overnight and is not necessarily the automatic outcome of a college education. Career development occurs gradually, throughout a person's lifetime. It is the product of decisions made, knowledge acquired, experiences gained, and actions taken. The years associated with college are ones in which *great strides* in an individual's career development usually take place.

Use your time here to shape the future YOU desire.	Freshmen Inquiry and Awareness	Sophomores Assessment and Exploration	Juniors Gaining Career Experiences	Seniors Job Search and Transition to World of Work
Choose Major and Career	<ul style="list-style-type: none"> Meet with career counselor at COC to determine major and appropriate career paths. Use <i>Discover</i>, a computerized self-assessment tool at COC to get occupations compatible with interests, abilities, experiences and values. Begin to build career network: seek faculty, staff, alumni and peers to discuss major/career choices. 	<ul style="list-style-type: none"> Use <i>TU Catalog</i> for major requirements and options. Meet with faculty adviser about major/career interests. If unsure about major or unclear about GenEd requirements, see AA. Meet again with career counselor at COC about major/career choices. Register at COC for <i>Personal Life and Career Planning</i> course. 	<ul style="list-style-type: none"> Build knowledge of major. Use catalog in use when you entered TU. Consider options for graduate or professional school. Increase knowledge of career choice. Focus on career network. Set up informational interviews with TU alumni and internship employers. Obtain names at AR, CC, COC. 	<ul style="list-style-type: none"> Identify and research potential employers. Utilize TU Alumni Network. Plan job search strategy. Learn to market yourself effectively. Attend seminars sponsored by CC. Complete application process for graduate or professional school if further education is part of career preparation. Register on Career Connections to participate in The Career Center's On-Campus Recruiting Program.
Supplement Academic Studies	<ul style="list-style-type: none"> Visit SAO for on-campus groups matching interests. Visit career libraries in CC, COC, CL, public libraries; browse WWW. Attend career-related events: job fairs, seminars, open houses, etc. Use TS for help in achieving a higher QPA. 	<ul style="list-style-type: none"> Attend events related to major/career interests. Develop computer and communication skills. Get online with a Tiger account through CANS. 	<ul style="list-style-type: none"> Attend events sponsored by CC and COC. Participate in campus leadership activities and career-related organizations. For information about groups, contact SAO. 	<ul style="list-style-type: none"> Attend career-related and professional organizations to build network of contacts in chosen field. Assume an active role in club or organization to build leadership and other transferable skills.
Develop Portfolio	<ul style="list-style-type: none"> Collect outstanding course work, projects, accomplishments, writing samples, letters of recommendation, photographs of activities, evaluations, etc. 	<ul style="list-style-type: none"> Continue collection of portfolio materials. Include work-in-progress to show ability to edit, revise, and improve. 	<ul style="list-style-type: none"> Organize for presentation to employers. Solicit feedback on contents from adviser, department chair, and professionals in chosen field. 	<ul style="list-style-type: none"> Submit completed portfolio to adviser, department chair, and other professionals for critique.
Build Work Experience and Values	<ul style="list-style-type: none"> Identify life and work values with COC inventories. Explore off-campus part-time and summer jobs at SE. Investigate on-campus student jobs at SE. Consider a FWS/CS experience. 	<ul style="list-style-type: none"> Increase marketability: build transferable skills through part-time and summer jobs, and FWS/CS. Determine and test work values in part-time and summer jobs. Explore requirements for major-related internship in junior year. 	<ul style="list-style-type: none"> Apply for internship at CC. Look for major-related part-time and summer jobs at SE and/or FWS/CS positions. Seek major-related on-campus student employment at CC. 	<ul style="list-style-type: none"> Consider a second internship to increase marketability. Investigate and pursue job openings at CC, job fairs, on-campus interviews, in newspapers, and on WWW.
Create Résumé	<ul style="list-style-type: none"> Sign up at the CC for <i>CareerConnections</i>, a Web-based, résumé-writing, and job-matching software. 	<ul style="list-style-type: none"> Add new volunteer and work experiences. Indicate new skills. Use Web-based <i>CareerConnections</i>. 	<ul style="list-style-type: none"> Use <i>CareerConnections</i> to update résumé: work, internship, field, volunteer experiences; transferable skills; functional skills; campus activities; honors; professional memberships. 	<ul style="list-style-type: none"> Participate in <i>CareerConnections</i>. Become eligible for employment services at CC.

AA Academic Advising/410.830.2472
 AR Alumni Relations/410.830.2234
 CANS Computing and Network Services/ 410.830.5151
 COC Counseling Center/410.830.2512
 CC Career Center
 CL Cook Library/410.830.2462

FWS/CS Federal Work Study/Community Service
 SAO Student Activities Office/410.830.3307
 SE Student Employment/410.830.2730
 TS Tutorial Services/410.830.2291
 WWW World Wide Web

**The Career Center at
 Towson University***
 7800 York Road, Suite 370
 410.830.2233
www.towson.edu/careercenter

*This office is relocating during the academic year. Please call before visiting.

Undergraduate Admissions

OFFICE

Enrollment Services Center, Second Floor
410-830-2113
Fax: 410-830-3030
1-888-4TOWSON
www.towson.edu

Please assist us in serving you by scheduling an appointment for an admissions interview or campus tour.

Hours: Monday through Thursday, 8:30 a.m. to 5 p.m.
(evening hours by appointment only)

Friday, 8:30 a.m. - 5 p.m.

Saturday, 10 a.m. - 1 p.m.

Louise Shulack, *Director*

Mark Jacque, *Associate Director*

Angela Devito, *Associate Director*

C. Trent Owings, *Senior Assistant Director*

Stephanie Fowler, *Senior Assistant Director*

David Blank, *Assistant Director*

Christine Collins, *Assistant Director*

Brian Leak, *Assistant Director*

Shannon Loy, *Assistant Director*

Gary Harner, *Transfer Evaluator*

Kay Smith, *Transfer Evaluator*

Stephanie Belk, *Admissions Counselor*

Maureen Sheehan, *Admissions Counselor*

WHEN TO APPLY

Freshmen: First semester of senior year of high school for the fall semester.

Transfer Students: By December 1 for the spring semester; by May 1 for the fall semester.

International Students: By November 15 for the spring semester; by June 1 for the fall semester.

Nontraditional Students: By November 15 for the spring semester; by May 1 for the fall semester.

Scholarship Candidates: By December 1 for the fall semester.

Admission to Towson University is granted to applicants whose academic and personal qualifications give promise of academic success. The university reserves the right to close admissions when no space remains available.

Students seeking freshman admission for the fall should file an application during the first semester of the senior year of high school. Students seeking transfer admission should file as early as October 1 for the fall semester. Full-time applicants for the fall semester who would like to be considered for an academic scholarship should submit an application, high school transcript and SAT I/ACT results no later than December 1.

Applications received after the priority deadline are processed provided space is available in the entering class. Students who fail to enroll for at least one course during the semester for which they have been admitted as a degree candidate will have the offer of admission revoked because of nonmatriculation. To enroll as a degree candidate for any subsequent semester, students must reapply and submit new application materials and pay all appropriate fees.

Persons who have been denied admission to Towson University will not be permitted to attend as nondegree students. They may, however, transfer to the university if they meet transfer admission requirements after attending another college or university. Persons who have graduated from high school within the last two years must formally apply for admission in order to attend the university.

ADMISSIONS PROCEDURE

1. An applicant for full-time admission may receive application materials from the guidance office of the secondary school, the counseling office of the junior/community college, or from the Office of Admissions of the university.

2. The applicant should complete the application and return it to the Office of Admissions with the appropriate application fee. The application fee is neither deferrable nor refundable. Each applicant is responsible for the office's receipt of his or her official high school transcript, including mid-year and final grades with verification of graduation, as each becomes available, and a completed transcript supplement (Guidance Counselor's Recommendation). *The transfer applicant must forward official transcripts of all college work attempted or completed, whether or not credit was earned, from all institutions attended.*

3. The standardized test required for admission is the SAT I of the College Entrance Examination Board. All freshman applicants and transfer students with fewer than 30 transferable college-level credit hours must submit the results of this test sent to the director of Admissions. Students should take the test in the junior and/or senior year of high school. Towson University's College Board identification code number is 5404. ACT results may be substituted for SAT I.

4. Incomplete applications will be canceled. Approved applications which remain incomplete for lack of final high school or college transcripts will also be canceled. The applications of admitted students who do not enroll for the given semester will be canceled.

5. All entering degree-seeking students born after December 31, 1956, including new graduate students and transfers, will be required to demonstrate physician-documented proof of immunity to the following diseases: Diphtheria-Pertussis-Tetanus, Polio, Measles, Mumps, and Rubella.

An Immunization Record Form is sent to every admitted student. The completed form, signed by a physician, must be returned to the Dowell Health Center by the time of orientation and registration. Students who fail to return the form or to correct any inadequacies in immunity status in a timely fashion will be blocked from the following spring semester registration. (For those students entering in the spring semester, noncompliance will result in blocked registration for the following fall semester.) The block will be lifted by Dowell Health Center as soon as the requirements are filled.

The specific vaccine requirements are listed on the Immunization Record Form. Students are responsible for obtaining any immunizations needed to satisfy university requirements from their regular source of medical care prior to arriving on campus.

GUIDELINES FOR FRESHMAN ADMISSION

Applicants for fall 2000 admission will be evaluated according to the following guidelines:

Beginning October 1, the university will admit freshman applicants whose secondary school records indicate B level work (3.00 or above grade point average on a 4-point scale) in academic courses (English, math, modern languages, science and social science only) from grades 9-11. These applicants must also possess a minimum 1100 combined SAT I. Applicants with lower grade point averages and test scores will be considered after mid-year senior grades are available on a space-available basis, with priority given to those with the strongest overall profile.

For spring 2001 admission, first-time freshman applicants with no previous college attendance will also be admitted to the university based on the guidelines described above. These applications will be considered on a space-available basis. Applications and all supportive documentation must be received in official form by December 1.

Freshman candidates will be expected to have completed four (Carnegie) units of English (including one each of composition, English literature and American literature), three units of social sciences, three units of lab science, three units of mathematics (Algebra I, Algebra II and Geometry), two units of a foreign language and six elective units. Any applicant whose high school transcript does not include this combination of curriculum requirements may be admitted with the understanding that select deficiencies must be completed during the first semester of the freshman year at Towson. Students who are admitted under this condition and who fail to complete the stipulated courses within the first semester will have their degree candidacy withdrawn. High school-level reading, writing and mathematics courses taken at Towson will not carry graduation credit.

GUIDELINES FOR TRANSFER ADMISSION

To be considered for transfer, students must have completed a minimum of 30 semester hours of transferable college-level work and be in good academic standing; this cannot include remedial or preparatory courses or nontraditional course work, such as Credit for Prior Experience/Learning, Military Science, the College Level Examination Program (CLEP), DANTES, USAFI, ACE evaluations, etc. Students with fewer than 30 transferable semester hours must comply with the requirements for incoming freshmen and *possess* the minimum transfer GPA.

The requirements for transfer admission vary, depending on the total number of transferable credit hours completed and the cumulative combined GPA from all institutions attended.

Priority admission is reserved for transfer students who have earned at least 56 transferable credits and have maintained a minimum 2.00 cumulative GPA.

For students who have earned between 30 and 55 transferable credits, preference will be granted to those who have maintained a minimum 2.50 cumulative GPA.

Transfer applicants who have earned fewer than 30 credits must maintain a minimum 2.50 GPA and submit a final high school transcript, and SAT I results. These students must also meet the GPA and SAT I requirements for freshman applicants.

Upon official acceptance to the university, students must maintain the established cumulative GPA required for admission (inclusive of current course work) and remain in good academic standing; otherwise, the university's offer of admission will be withdrawn.

Admission priority will be granted to graduates of Maryland community colleges and to those Maryland community college students who have earned at least 56 transferable credit hours.

Any transfer applicant who has attended Towson as a non-degree student must possess at least a 2.00 grade point average for all course work attempted through the university, even if the applicant is admissible based on course work subsequently completed at other institutions. Students who apply for transfer admission based on their nondegree status must meet the admissions requirements listed above.

Waiting List

Applicants who are currently enrolled in course work that may qualify them for admission will have their applications reviewed after official transcripts, including grades for that work, are received. These students are encouraged to make alternative plans for admission to other colleges in the event that the university is not able to extend an offer of admission because of lack of space at the end of that particular semester.

TRANSFER POLICY

(Also see the Academic Regulations section and Appendix B of this catalog.)

I. Transfer of course credit.

The Office of Admissions at Towson University assists transfer students with a variety of services, from personal interviews to

the ARTSYS computer network. These services are designed to guide students in judicious course selections while they are still enrolled at their transfer institutions. Through a well planned selection of courses prior to transfer, students can often complete some major requirements and some TU General Education (GenEd) requirements upon official matriculation.

Transfer course work is evaluated by the Office of Admissions on a form known as the Evaluation of Transfer Credit. Transfer credit will be allowed for most academic courses completed at any regionally accredited two- or four-year college or university; this credit will transfer into TU as either GenEd or free elective/potential major credit. Some restrictions do apply, however; courses that are not parallel or discipline-compatible with TU courses may not transfer; development/remedial, personal development, college orientation, technical/occupational, and selected business courses do not transfer; finally, any course transferred as equivalent to TU ENGL 102, Writing for a Liberal Education, must carry a grade equivalent of 2.00 or higher to meet graduation requirements.

2. Maximum number of transfer credits accepted.

The maximum number of credits allowed in transfer from a two-year institution (community/junior college) is 64. The maximum number of credits allowed in transfer from a four-year institution or from a combination of two- and four-year institutions is 90. The standard measure of credit at TU is the semester hour; quarter-hour credits are converted into semester hours by a two-thirds ratio.

3. Maximum number of credits allowed for non-traditional learning.

CLEP credit is selectively transferred. Credit will be awarded for the general exam if the following minimum scores are earned:

Humanities	480
Math	450
Natural Sciences	450
Social Sciences and History	450

A total of 24 credits (6 credits for each successfully completed section) will be awarded in transfer. Credit for subject CLEP tests is evaluated after admission by the Office for Non-Traditional Undergraduate Programs. The maximum number of credits allowed for nontraditional learning is 45.

AP credit is usually awarded on the basis of scores of 3 or above, with a score of 3 often requiring a review of the test booklet. A detailed description of Advanced Placement credit follows under the appropriate heading. There is no limit to the number of credits that can be earned through AP.

In order for any CLEP or AP credit to be reviewed and/or awarded, students must provide the Office of Admissions with an official report from Educational Testing Service.

Credit for military training is reviewed and awarded or denied by the Office for Non-Traditional Undergraduate Programs. Before credit can be posted, students must have attended TU for one semester as degree candidates with a 2.00 cumulative GPA and have submitted all of the necessary official military documents to the Office for Non-Traditional Undergraduate Programs.

4. Minimum number of credits required through classroom instruction in the major field and for the degree.

Towson University requires that students earn a minimum of 120 credits toward a degree. Of these 120 credits, 32 must be upper-level, that is, junior/senior (300-400) level courses. Students *must* complete a minimum of 30 credits in residence at TU; at least 15 credits *must* be completed in degree candidate status.

The number of credits required for the completion of a single major at TU varies from 30 to over 70 credits, depending on the intended major.

Grades of D will transfer into the university as GenEd/elective credit, with the exception of grades of C- or lower in any courses equivalent to TU ENGL 102, Writing for a Liberal Education; *these courses will not satisfy graduation requirements*. Grades of C- or lower *will not* qualify for major credit.

5. Transfer of General Education (GenEd) requirements.

Transfer students who have satisfied the GenEd requirements at a Maryland public postsecondary institution will only be required to complete 10-16 additional semester hours of General Education and specific courses required of all students at TU, with the total number of GenEd credits not to exceed 46 semester hours. (For information regarding specific GenEd requirements refer to **General Education Requirements** under the **University Curriculum** section of this catalog.)

6. Transferability of credit for non-traditional learning.

Source	Accept Credit yes	Elective or Required required	Grades/ Scores evaluated individually by the Office for Non- Traditional Undergraduate Programs
ACT PEP			
Advanced Place- ment Program (CEEB)	yes	elective & required	usually 3 or higher
CLEP	yes	elective & required	see Transfer Policy (item 3 above) and the section on Credit for Prior Learning under University Curriculum
DANTES	no		
Departmental Exams from other Colleges	yes	elective & required	passing grade; a grade equivalent of 2.00 or higher in college's composition courses
Military Credit (ACE Guide to the Evaluation of Edu- cational Experi- ences in the Armed Services)	yes	elective & required -	evaluated individually by the Office for Non- Traditional Undergraduate Programs
Nursing School	no		
Noncollegiate Work Accredited by ACE (e.g. PONSİ)	yes	elective	evaluated individ- ually by the Office for Non- Traditional Undergraduate Programs
Portfolio Credits from other Colleges	yes	elective & required	passing grade; a grade equivalent of 2.00 or higher in composition courses

High School Artic- ulation (college courses at high school)	yes	elective & required	passing grade; a grade equivalent of 2.00 or higher in composition courses
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Evaluation of Transfer Credits

The letter of admission for a transfer applicant includes the estimated number of credits transferable to Towson. After the student accepts the university's offer of admission (by returning the Enrollment Contract and fee), he or she will receive an official evaluation of transferable credits from the Office of Admissions. This evaluation is usually (but not always) preliminary in nature, as the student is usually taking additional courses at the time of admission. A final evaluation of credit will be prepared after the final grades for the most current semester are received in official transcript form from the student's former college or university. All final transcripts are due in the admissions office prior to the student's *Orientation date*. The appropriate cumulative average, as determined by the number of credits completed and good academic standing must be maintained, however, or the university's offer of admission will be withdrawn. See **Guidelines for Transfer Admission Policy** for the appropriate cumulative grade point average necessary for maintaining admission eligibility. Failure to meet this requirement will result in the cancellation of the university's original offer of admission and in the forfeiture of all related fees and privileges. Additionally, failure to forward an official final transcript before enrollment at the university or the first day of classes will prohibit future registration and the release of official TU transcripts.

Upon receipt of a final evaluation, the transfer student should review its contents carefully. If the student has any questions or feels there is an error, the Office of Admissions *must be advised within 30 days*. In no case will changes, additions, or corrections be made to the evaluation after the student has completed the first semester in residence at Towson University.

Transfer students are subject to the GenEd and major requirements that are currently in effect for the class (that is, the catalog year) in which they are admitted. These students have the option, however, of following the GenEd and major requirements that were in effect at the time they were initially admitted as degree candidates at their original institution, provided that continuous enrollment has been maintained. Continuous enrollment has been defined as follows: must be, or have been, enrolled at a Maryland public institution of higher education; must have had no more than two sequential years of non-enrollment; and must complete the baccalaureate degree in no more than 10 years from initial enrollment as a degree-seeking student at a Maryland public institution of higher education. Students who have not completed graduation requirements within 10 years should meet with an academic adviser to determine the most appropriate set of requirements. If a change of catalog is desired, students should inform the Office of Admissions in a separate written request (prior to the completion of their first semester at TU).

Maryland community college transfer students whose first attendance at any institution of higher education occurred in the fall of 1990 or later will fall under the guidelines set forth by the Maryland Higher Education Commission on March 21, 1990. (See **Appendix B** for details.)

Competency Requirements for Entering Students

The Office of Developmental Education administers the competency testing and developmental studies programs. These programs require all entering students to demonstrate competence in the basic skills of reading, writing and mathematics. Competence in the basic skills is initially assessed by performance on the Diagnostic Placement Tests.

All matriculating freshmen and all transfer students with fewer than 30 credits will be administered diagnostic placement tests. Students not attaining the required minimum scores on the standardized tests will be enrolled in developmental studies courses in the basic skills. These courses will not count toward the 120 credits required for graduation. *Students who do not achieve minimum proficiency by the end of the third regular semester, or who fail to achieve a grade of S or a grade equivalent of 2.00 or higher, will have their degree candidacy withdrawn.*

In addition, students who fail to successfully complete developmental course(s) on the third attempt may no longer attend the university in pursuit of a degree.

The following students are exempt from the competency testing program:

1. Transfer students with 30 or more credits.
- 2a. Transfer students with fewer than 30 credits who transfer a course equivalent to ENGL102 with a grade equivalent of 2.00 or higher will be exempt from the reading and writing tests.
- b. Transfer students with fewer than 30 credits who transfer a college-level mathematics course will be exempt from the mathematics tests.
- 3a. Freshmen with SAT I verbal scores of 550 or above will be exempt from the reading and writing tests.
- b. Freshmen with SAT I mathematics scores of 500 or above will be exempt from the mathematics tests.

U.S. PERMANENT RESIDENT APPLICANTS

Applicants who hold permanent resident or parole visa status must submit a regular application and list their alien registration number in the space indicated. They are processed for fee purposes as state residents if they have established legal domicile in Maryland for one year. Presentation of an applicant's alien registration card for verification may be requested. Foreign academic records submitted for evaluation must be translated into English and notarized. An application and all documentation must be submitted by December 1 for the spring semester or May 1 for the fall semester. If a permanent resident is a nonnative English speaker and has resided in the United States for less than five years, a TOEFL result is required.

SPECIAL ADMISSION PROGRAMS

Early Admission

Early admission enables a limited number of students to be admitted and to matriculate immediately following the completion of their junior year in high school. Students interested in early admission should apply through the normal application process. Their applications, however, must be accompanied by a letter of recommendation from either the high school counselor or principal. Additionally, a letter of recommendation from the student's parent(s) should be included. An official high school transcript should be submitted along with the results of the SAT I. An interview with the director of Admissions is also suggested.

On-Campus Interviews

Personal interviews are not required and are not used as a criterion for admission. Prospective students may request an interview to discuss questions or concerns they may have about Towson University. Students are encouraged to call three weeks in advance of their visit to schedule an appointment with an admissions counselor.

Open House

Each fall, the admissions staff, faculty, administrative personnel and students host a series of open house programs that offer visitors an opportunity to take a tour of the campus and discuss their academic, extracurricular, residential or financial aid concerns. Reservations are required in advance and may be secured by calling the Office of Admissions.

NON-TRADITIONAL ADMISSION POLICIES

Mature Adults, Veterans and G.E.D. Recipients

Some high school graduates may qualify for special admission consideration under the provisions of non-traditional admissions. In order to be considered under this policy, students must be classified into one of the categories described below. Once classified as non-traditional applicants, prospective students must apply and submit all credentials no later than November 15 for the spring semester and no later than May 1 for the fall. Admission will be based upon basic skills testing in several areas: writing, reading, mathematics, etc. These students can be admitted into degree candidacy only if their test results indicate no more than one developmental placement. Students are eligible for only one test session each semester and are encouraged to submit their applications as early as possible to ensure adequate processing time for the evaluation of the placement tests. In addition, it should be understood that referrals for such testing cannot be made until a formal application is filed, and completed with all appropriate academic credentials in transcript form.

Mature Adults: For admission purposes, a mature adult may be defined as one who has not been regularly enrolled in an education institution for a period of three years or more prior to his or her date of entry into the university.

Veterans: For admission purposes, a veteran may be defined as a current or former member of any branch of the U.S. Army Services with 12 months (one year) or more of active duty served, and with no intervening college or university attendance since discharge from the service. In addition to the application form and academic credentials, veterans must also provide the Office of Admissions and the Veterans Office with a copy of the DD form 214 verifying military service.

G.E.D. Recipient: For admission purposes, the high school equivalence (General Education Development) examination standards established by the Maryland State Department of Education (or other similar agencies in other states) will be used as an alternative to high school graduation. Unless accompanied by acceptable SAT I results and a partial high school transcript with which to render an admission decision, a G.E.D. recipient will be referred for placement testing before an admissions decision is rendered.

ADVANCED PLACEMENT

Freshmen who have had the opportunity for advanced-level work and would like academic credit as well as advanced placement are encouraged to take the Advanced Placement Tests of the College Entrance Examination Board in May of their senior year of secondary school. Arrangements to take the tests are made through the high school counselor or the College Entrance Examination Board, P.O. Box 592, Princeton, NJ 08540. The results of these tests are received by the university in mid-July. The following standards are used for determining advanced placement credit:

Advanced Placement Credit for Entering Students

Examination	A.P. Score	Policy
American History	1, 2 3 4, 5	No credit Review of test booklet determines if credit can be awarded. 6 credits, HIST 145-146
Art History	All	No credit
Art Studio: Drawing	All	No credit
Art Studio: General	All	No credit
Biology	1 2 3, 4, 5	No credit 4 credits, BIOL 110 8 credits, BIOL 201-202
Chemistry	1, 2 3 4	No credit Placement into CHEM 111. Upon completion of CHEM 111, with a grade equivalent of 2.00 or higher, 4 credits will be awarded for CHEM 110. 8 credits for CHEM 110-111

Examination	A.P. Score	Policy
Computer Science	1, 2 3 4, 5	No credit Exempt from COSC 165, placement into COSC 236 Exempt from COSC 165 and COSC 236, placement into COSC 237. Upon completion of COSC 237 with a grade equivalent of 2.00 or higher, 7 credits will be awarded for COSC 165, 236.
<i>Economics</i>		
Microeconomics	1, 2 3, 4, 5	No credit 3 credits for ECON 201
Macroeconomics	1, 2 3, 4, 5	No credit 3 credits for ECON 202
English Lit. Comp or English Lang. Comp	1, 2, 3 4, 5	No credit 3 credits, ENGL 102
European History	1, 2 3 4, 5	No credit Review of essay booklet determines if credit can be awarded. 3 credits, HIST 242
French Language	1, 2 3 4, 5	No credit 15 credits, FREN 101-301 18 credits, FREN 101-302
French Literature	All	No credit
German Language	1, 2 3 4, 5	No credit 15 credits, GERM 101-301 18 credits, GERM 101-302
German Literature	All	No credit
Latin: Vergil	All	No credit
Latin: Cat-Horace	All	No credit
<i>Mathematics</i>		
Calculus AB	1, 2 3, 4, 5	No credit Placement in MATH 274. Upon completion of course a grade equivalent of 2.00 or higher, 4 credits will be awarded for MATH 273.
<i>Mathematics</i>		
Calculus BC	1, 2 3, 4, 5	No credit Placement in MATH 275. Upon completion of course with a grade equivalent of 2.00 or higher, 8 credits will be awarded for MATH 273-274.
Statistics	3, 4, 5	3 credits, MATH 231
Music Listening	1, 2	No credit
Non-Majors	3, 4, 5	3 credits, MUSC 101
Majors	3, 4	No credit
Majors	5	6 credits, MUSC 101-102
Music Theory	All	No credit
Physics B	1, 2 3, 4, 5	No credit 8 credits, PHYS 211-212
Physics C Mechanics or Elec/Magnetism	1, 2 3, 4, 5	No credit Review essay booklet
Psychology	1, 2 3, 4, 5	No credit 3 credits, PSYC 101
Statistics	1, 2 3, 4, 5	No credit 3 credits, MATH 231
Spanish Language	1, 2 3 4, 5	No credit 15 credits, SPAN 101-301 18 credits, SPAN 101-302
Spanish Literature	All	No credit
United States Government and Politics	1, 2 3, 4, 5	No credit Upon completion of an upper level POSC course with a grade equivalent of 2.00 or higher, 3 credits will be awarded for POSC 103.

Prior to the change of schedule period, students are notified about Advanced Placement and credit. Additional information may be obtained by contacting the director of Admissions or the appropriate departmental chair.

A bulletin of information about Advanced Placement Tests may be secured from the College Entrance Examination Board, P.O. Box 592, Princeton, NJ 08540.

INTERNATIONAL BACCALAUREATE

Towson University recognizes that the International Baccalaureate (IB) program represents achievement beyond the standard American high school program and regularly awards advanced standing to students who successfully complete IB course work.

Diploma Holders

Students who earn an IB Diploma will be awarded 30 college credits toward the bachelor's degree and receive sophomore standing. Some of these credits may be applied toward Towson's General Education requirements; each student's IB credits will be individually evaluated for General Education applicability.

Certificate Holders

Students who earn an IB Certificate will be eligible to receive college credits based on the results of their higher level exams only. At least 6 and as many as 8 credits will be awarded for each higher level exam completed with a score of 4 or above. A score of 5 or above is required to receive credit for the physics higher level exam.

Higher Level IB Course Equivalency

IB COURSE	EQUIVALENCY	GENERAL EDUCATION	CREDITS
Language A1	ENGL 240 ENGL Elective	II.C.1	3 3
Language A2	FORL 101 FORL 102	I.C.1 or II.D. II.C.1 or II.D.	4 4
Language B	FORL 101 FORL 102	II.C.1 or II.D. II.C.1 or II.D.	4 4
Business and Organization	BEEL Elective BEEL Elective		3 3
Economics	ECON 201 ECON 202	II.C.2 II.B.2	3 3
Geography	GEOG 109 GEOG Elective	II.C.2	3 3
History	HIST 151 HIST Elective	II.D.	3 3
History of Islamic World	To Be Determined	To Be Determined	
Philosophy	PHIL 101 PHIL Elective	II.C.1	3 3
Psychology	PSYC 101 PSYC Elective	II.C.2	3 3
Social Anthropology	ANTH 207 ANTH Elective	II.D.	3 3
Biology	BIOI 201 BIOI 202	II.A.1 II.A.1	4 4
Chemistry	CHEM 101 CHEM 102	II.A.1 II.A.1	4 4
Design Technology	To Be Determined	To Be Determined	
Physics	PHYS 211 PHYS 212	II.A.1 II.A.1	4 4
Mathematics HL	MATH 10T MATH Elective	I.C.	4 4
Art/Design	To Be Determined	To Be Determined	
Classical Languages	To Be Determined	To Be Determined	
Computer Science	To Be Determined	To Be Determined	
Music	MUSC 102 MUSC Elective	II.C.1	3 3
Theatre Arts	To Be Determined	To Be Determined	

Western Languages fulfill category II.C.1; non-Western languages fulfill category II.D.

Standard Level IB Course Equivalency

(Students without the IB Diploma are NOT awarded credit for Standard Level subjects)

IB COURSE	EQUIVALENCY	GENERAL EDUCATION	CREDITS
Language A1	ENGL 240	II.C.1	3
Language A2	FORL 101	II.C.1 or II.D.	3
Language B	FORL 101	II.C.1 or II.D.	3
Language AB Initio	FORL 101	II.C.1 or II.D.	3
Business and Organization	BEEL Elective		3
Economics	ECON Elective		3
Geography	GEOG 109	II.C.2	3
History	HIST 10T	II.D.	3
History of the Islamic World	To Be Determined	To Be Determined	
Information Technology in a Global Society	To Be Determined	To Be Determined	
Philosophy	PHIL 101	II.C.1	3
Psychology	PSYC 101	II.C.2	3
Social Anthropology	ANTH 207	II.D.	3
Biology	BIOI 110	II.A.1	4
Chemistry	CHEM 101	II.A.1	4
Design Technology	To Be Determined	To Be Determined	
Environmental Systems	To Be Determined	To Be Determined	
Physics	PHYS 211	II.A.1	4
Advanced Mathematics	MATH 10T	I.C.	4
Mathematical Methods	MATH 211	I.C.	3
Art/Design	To Be Determined	To Be Determined	
Classical Languages	To Be Determined	To Be Determined	
Computer Science	To Be Determined	To Be Determined	
Music	MUSC 102	II.C.1	3
Theatre Arts	To Be Determined	To Be Determined	

Western languages fulfill category II.C.1; non-Western languages fulfill category II.D.

International Undergraduate Admissions

OFFICE

7800 York Road, Suite 105

(This office is moving to the new Administration Building, 7720 York Rd., 2nd floor, during the academic year. Please call before visiting.)

Phone: 410-830-6069

Fax: 410-830-6070

www.towson.edu/tu/international_student

Jeffrey M. Haas, *Director*

Stanton Cheah, *Assistant Director*

Katy Mattson, *Counselor*

Requests for information or admission materials should be made far enough in advance to allow processing before deadline dates set by Towson University.

International applicants who are accepted for admission usually begin studies in the fall semester (early September) or the spring semester (late January). The deadline for submitting an application and all documentation is June 1 for the fall semester and December 1 for the spring semester. Early application is strongly encouraged.

Applicants who have been accepted for admission will receive the Certificate of Eligibility (Form I-20). This document is used to apply for a student (F-1) visa at a U.S. Embassy or consulate overseas. It is also used for transferring from one institution in the United States to another. F-1 students are required to enroll each semester as full-time degree candidates and take a minimum of 12 semester-hour credits.

The following procedure should be followed by students applying for their first American bachelor's degree (students applying for a second bachelor's degree should refer to the Curriculum section of this catalog):

1. Obtain an international student packet.

Address:

Office of International Admissions
Towson University
8000 York Road
Towson, MD 21252-0001, U.S.A.
Telephone: 410-830-6069
E-mail: intladm@towson.edu

2. To be considered for admission, applicants are required to complete the official international undergraduate application. A nonrefundable, U.S. \$30 application fee (personal check drawn at a U.S. bank or money order drafted in U.S. dollars) must accompany all applications.

3. All international applicants must complete an admissions file, including

a. official or notarized secondary school academic records, showing grades received, annual mark sheets, examination certificates and leaving certificates, as they apply to the educational system in the student's home country. Records must be received for the last three years of secondary school;

b. official or notarized records (transcripts) of all colleges, universities, post-secondary, or professional schools attended;

c. a notarized English translation of all documents. Translations must be as literal as possible with no attempt to translate information into the United States system of education. To evaluate post-secondary course work, it is sometimes necessary for the university to use a professional evaluation service at the applicant's

expense (approximately U.S. \$125). The university will notify an applicant if this service is required;

d. an official Test of English as a Foreign Language (TOEFL) results. All international students who do not speak English as their native language are required to take the TOEFL. A minimum score of 500 (paper-based) or 173 (computer-based) is required. TOEFL examination dates and information may be obtained through the U.S. Embassy/Consulate, United States Information Agency or by writing to: TOEFL/TSE Services, Box 6151, Princeton, NJ 08561-6151, U.S.A. The results will be reported to Towson if the university is indicated on the TOEFL application. The TU code number is 5404;

e. financial certification. Applicants are required to provide official financial statements verifying that U.S. \$20,000 is available annually to cover their tuition, fees and living expenses. Acceptable methods of financial verification are described in the international student packet.

4. International students are required to pay out-of-state tuition.

5. Most non-native speakers of English admitted to the university are required to take Towson's English placement test to determine if preparatory college writing courses are needed.

6. Applicants holding other types of visas may also apply to Towson and should contact the Office of International Admissions for more information.



University Life

Because more than a third of the students make the university their home, Towson offers many benefits of small-town living with the added bonus of activities and services to help students make the most of their time here. Whether you live on campus or commute, you will certainly spend a great deal of time on campus. Getting involved with a club or campus organization increases your opportunities for an enjoyable and successful Towson career.

This section is arranged according to the type of service or activity:

For New Students

Orientation and New Student Programs

For All Students

Athletics

Auxiliary Services Business Office

Career Center

Counseling

Personal Counseling, Alcohol and Drug Abuse Counseling, Life Planning and Career Development, Cope-Line, Outreach and Consultation

Dining Services

Disability Support Services

Diversity

Office of Diversity Resources, African American Cultural Center, Nondiscrimination Policy

Greek Affairs

Health Services

Dowell Health Center

Speech-Language-Hearing Clinic

Health Insurance

Housing and Residence Life

Identification Card

International Students

International Student and Scholar Office, English Language Center, ESOL

Judicial Affairs

Parking, On-Campus

Post Office

Recreational Sports

Religious Activities

Campus Ministry

SAGE

Shuttle Bus Service

Student Activities

Student Government Association

Clubs and Organizations

Student Day Care Center

Students with Children

Ticket Office

University Store

University Union

Veterans Office

Vice President for Student Life

Women's Center

FOR NEW STUDENTS

Orientation and New Student Programs

University Union 325, 410-830-2306

All new first-year and transfer students attend an Orientation. The Office of Orientation and New Student Programs provides programming throughout the first semester to help make your transition to Towson a smooth one. The program is specifically designed to meet the needs of newly admitted students from an academic and co-curricular perspective.

College brings many new academic expectations. Orientation allows you to meet with faculty and staff to help ensure your academic success. Your student orientation leader will be a valu-

able resource during the program and throughout your first semester. A strong co-curricular experience is key to your overall success at Towson. Orientation connects you with services and programs that can help you succeed.

Orientation for all newly admitted freshmen takes place in late August just before the start of classes and leads directly into Welcome Week. Each student is part of a First-Year Experience group that includes an academic adviser and an Orientation leader. Before attending Orientation, all freshmen are scheduled for one day in July for the TU CARES (Campus Advising and Registration for Entering Students) program. This is a brief program that allows you to meet with an adviser to confirm your fall schedule and helps you take care of various forms of business, such as obtaining your TU One Card (student I.D.), updating your health immunization records, etc. You will receive information about your Orientation program at that time.

New *transfer* students attend a one-day comprehensive Orientation in July. This program includes informational sessions about academic and student life, campus resources, academic advising and registration.

FOR ALL STUDENTS

Athletics

Towson Center, 410-830-2759

Towson University is committed to a growing comprehensive intercollegiate athletic program as an integral part of the student's total educational experience. The program is a member of the National Collegiate Athletic Association's (NCAA) top level - Division I. In addition, TU enjoys membership in the Eastern College Athletic Conference (ECAC), Patriot League (football), East Atlantic Gymnastic League (women's gymnastics), and AMERICA EAST. The Tigers field men's varsity teams in baseball, basketball, cross country, football, lacrosse, golf, indoor track, soccer, swimming and diving, tennis, and outdoor track. Women's teams are fielded in basketball, cross country, field hockey, gymnastics, indoor track, lacrosse, soccer, softball, swimming and diving, tennis, outdoor track, and volleyball.

Both the men and women compete for conference, regional, and national honors under the guidance of an outstanding coaching staff. The Towson Center complex is the official home of the Tigers and includes a 5,000 seat arena and 5,000 seat stadium, making it a showcase facility in the metropolitan Baltimore area. The Department of Athletics is proud that its athletes are students first and foremost. This emphasis on academics is evident by the excellent graduation rate of the TU student-athlete population. Historically, the highest number of graduating student-athletes receive their degrees from the College of Business and Economics and the College of Health Professions.

Athletic scholarships are available for gifted student-athletes in all sports (football is need-based). All students are encouraged to participate according to their interests and abilities. Prospective student-athletes interested in competing on a varsity team should contact the head coach of that sport.

Auxiliary Services Business Office

University Union 118, 410-830-2284

This is a one-stop business transactions office for One Card Dining Points and Retail/Vending accounts, One Card ID cards, parking permit purchases and fine payments, UniCom long-distance phone payments, and MVA nonresident permits and vending refunds.

The Career Center at Towson University

7800 York Rd., Suite 370, 410-830-2233

(This office is moving during the academic year. Please call before visiting.)

www.towson.edu/careercenter

The Career Center at Towson University helps students prepare and search for meaningful and satisfying careers. The center also provides services and information leading to academic internship opportunities and on- and off-campus full-time and part-time employment. To learn more about the programs and services offered by The Career Center, visit www.towson.edu/careercenter, or call the center for a schedule of information seminars.

Career Center Services for Students

- CareerConnections (Web-based resume system)
- Workshops: resume writing, job search tips and interviewing techniques
- Career Fairs/Job Fairs
- Career advising
- Career Resource Library
- Graduate school information
- On-campus interviewing
- Student employment (on- and off-campus)
- Resume referral services
- Internships
- Professional Development Seminars

All employment opportunities are posted on the Web site.

Counseling**Counseling Center, Glen Esk, 410-830-2512**

College life presents many stresses, life changes, and opportunities for personal growth. To meet these challenges, it is often necessary to resolve emotional problems, learn new personal and social skills, and work toward developing well-chosen career and personal goals. The Counseling Center provides a variety of professional services for students who are experiencing personal difficulty or who are seeking help toward a greater level of personal effectiveness or satisfaction.

Some of the concerns which may be addressed by the Counseling Center include:

- Blocks to educational or career achievement
- Career development and decision-making
- Relationships with friends, roommates, parents, romantic partner or spouse
- Family problems
- Grief and loss
- Sexual matters
- Self-esteem and self-confidence
- Anxiety, depression and anger
- Physical stress and tension
- Eating disorders
- Physical or sexual mistreatment or abuse
- Alcohol and drug-related problems
- Suicidal or self-destructive behavior or thoughts
- Problems encountered in the university environment

Most services at the Counseling Center are provided free of charge.

The Counseling Center is staffed by psychologists, professional mental health and substance abuse counselors, consulting psychiatrists, and psychologists working under supervision. All services at the Counseling Center are confidential. For more information or to make an appointment, call or drop by Glen Esk, the big white building on the northeast corner of the campus.

Personal Counseling, Psychotherapy and Mental Health Services

Several kinds of counseling help are available at the Counseling Center. A session or two of short-term counseling can help individuals to assess personal problems, clarify thoughts and feelings, cope with immediate stresses, and make personal

decisions. Several groups and counseling clinics are offered each semester, tailored to specific needs, such as improving self-esteem, learning assertiveness, overcoming eating disorders, improving relationship skills, and resolving emotional trauma. Individual psychotherapy services are also available on a limited basis. Psychiatric evaluation and medication are also provided as needed.

Alcohol and Drug Abuse Program

The Counseling Center houses a state-certified alcohol program and other drug treatment programs, offering both individual and group services. These services are designed not only for those who are having a problem with alcohol or drug abuse, but also for anyone whose life has been touched by someone else's substance abuse problems.

Life Planning and Career Development

The Counseling Center assists students in personal life planning and career development in a variety of ways. A career library is staffed by paraprofessionals and houses the computer assisted career development program, DISCOVER. This program focuses on the world of work, personal assessment, occupational planning, and making transitions. Several other forms of assessment and information are also provided. Professional staff are available by appointment for individual career counseling. Students interested in an intensive, systematic approach to career development may register for a Counseling Center sponsored elective 2-credit course entitled Personal Life and Career Planning (GENL 121).

Cope-Line

This anonymous telephone information and referral service contains over 300 audio tapes covering a wide variety of mental health, consumer and legal issues. Tapes of your choice may be heard over the telephone. Call the Counseling Center for a free brochure.

Outreach and Consultation

Counseling Center staff members are available to consult with students, faculty and staff on such topics as improving the campus environment, group issues, and generally dealing with the quality of student life. Special workshops are offered for residence halls, student organizations, classes, and faculty and staff groups.

Referral

Center staff members have information about a variety of resources and services on campus and in the surrounding metropolitan area. We work closely with each client to find appropriate sources of help and to make the referral process as positive and easy as possible.

Hours

The Counseling Center is open Monday through Friday, from 8 a.m. to 5 p.m.

Your Initial Contact

Call 410-830-2512 or stop by the Counseling Center to arrange your first appointment with a counselor. Initial appointments are usually available on the same day you contact us or very soon thereafter. If you wish, you may schedule an appointment in advance to fit your schedule more conveniently. Emergency appointments are also available. Your counselor will help you resolve your immediate concerns and determine what ongoing Counseling Center services will be the most useful.

Confidentiality

Counseling often deals with very personal and highly private issues. Successful outcome depends on a feeling of freedom on the

part of clients to express feelings, attitudes and thoughts with people who respect them and their right to privacy. Interviews conducted are confidential and information is not released except with the client's written permission or as may be required by law. The importance of confidentiality is reflected in the Counseling Center's adherence to the Code of Ethics of the American Psychological Association.

Dining Services

University Union, 410-830-2302

Students who live on campus must purchase a Meal Plan. These plans provide from five to 19 meals per week, and both standard and kosher menu items are available. Meals and Dining Points are accessed by using the multipurpose One Card. Students may spend Dining Points wherever Dining Services sells food on campus. All plans feature cash allowances that enable students to trade dining hall meals for food sold at Dining Services retail operations on campus (some restrictions apply). Resident students choose their Meal Plan through their residence contract. Call 410-830-2516 for more information.

Commuter students may purchase a Meal Plan and Dining Points at the Auxiliary Services Business Office, located in University Union, room 118. Dining Points provide a 5 percent savings over cash payment for food purchased at any Dining Services location and an even higher savings over cash when used to buy an "All-You-Care-to-Eat" meal at one of the dining halls.

Students with special dietary concerns or questions about nutrition may attend workshops with the campus dietitian or arrange for individual consultation.

Disability Support Services

7800 York Road, Suite 135, 410-830-2638 (Voice or TDD)
(This office is moving to the new Administration Building, 7720 York Rd., 2nd floor. Please call before visiting.)

Disability Support Services (DSS) provides services and accommodations to meet the needs of students with disabilities, including students with attention deficit/hyperactivity disorders, blindness/low vision, deafness/hard of hearing, learning disabilities, medical disabilities, physical disabilities, and psychological disabilities. Students with disabilities are encouraged to register with DSS as soon as possible after admission to the university to ensure timely provision of services. Even if a student decides that services are not needed immediately, it is advisable to register with the office so that documentation is on file should the services be needed at a later time. Recent documentation from a qualified professional as to the nature of the disability is required for services, and accommodations are provided according to individual need. In addition to arrangements for accommodations, DSS services include the provision of instructional support in the form of time management, study and test-taking strategies, and reading and writing assistance. Access to adaptive technology, including disability-specific software and equipment is provided as well. Students who suspect they have a disability but do not have documentation are also encouraged to contact DSS for advice on how to obtain an appropriate evaluation.

Diversity

Office of Diversity Resources

University Union 232, 410-830-2051

Towson University is committed to developing an environment which is conducive to the success of the multicultural, multiracial population it serves. To this end, the Office of Diversity Resources works to assure that the needs and concerns of minorities are recognized, responded to, and reflected in academic and social policies and programs. Approximately 15 percent of the student body are classified as minorities. Of those, the largest segment (10

percent) are African Americans. Students of Asian descent are the fastest growing minority group on campus.

It is the role of the Office of Diversity Resources to advocate on behalf of students of color. Social and educational programming, advising and financial assistance are offered. In addition, consultation around issues of diversity, differences and discrimination is available for faculty, students and staff.

African American Cultural Center

University Union 317, 410-830-2641

The African American Cultural Center (AACC) sponsors programs and activities that reflect the lifestyles, history and culture of people of African descent. The center also seeks to stimulate scholarship at Towson in the areas of African American, African-Caribbean and African studies. The center sponsors the Towson University Gospel Choir, publishes a newsletter, *Ebony Notes*, hosts lectures and discussion groups, provides information and referrals, showcases amateur and professional artists, and sponsors the Visiting Lecturers Grant Program.

The center, which houses an ever-growing collection of art, music, and popular and scholarly literature, provides a comfortable setting in which to study, relax and socialize. Student or staff groups may reserve the center for meetings and informal gatherings.

The center houses a wealth of information concerning graduate schools, fellowships, scholarships, employment opportunities, and other news relevant to minority students, faculty and staff. The information is updated regularly. Students are invited to stop by often; no appointment is necessary.

Nondiscrimination Policy

Towson University is dedicated to a vigorous intellectual life based on scholarship and learning. A fundamental premise of the academy is respect for each individual's right to participate and learn in a climate free from racism, prejudice and biased practices. Racism and other forms of discrimination may be observed as explicit abuse, threatening or directly harmful actions, or subtle devaluation of an individual based on race, ethnicity or religion. Such behaviors demean the entire academic community and will not be tolerated by the university.

The university community, faculty, administrators, staff and students are expected to demonstrate respect for all of that community's members and to actively facilitate the creation and maintenance of a positive and constructive milieu. For example, it is the responsibility of administrators to formulate and implement fair and effective practices to prevent discrimination and to respond promptly and consistently to complaints. It is the responsibility of faculty to provide a classroom environment which discourages discriminatory behavior and to deal constructively with such behavior should it occur. Evaluations of performance and merit for faculty, staff and students should not be based on assumptions, expectations or attitudes related to race, ethnicity or religion. Additionally, all administrators, faculty and staff are responsible for nondiscriminatory behavior in their interpersonal communications with colleagues, staff and students. In all interactions, a model of acceptance of cultural diversity should be fostered by the university community, faculty, administrators, staff and students.

Greek Affairs (see Student Activities)

Health Services

Dowell Health Center, 410-830-2466

The Dowell Health Center has an experienced staff of physicians, nurse practitioners, physician's assistants and health educators. Most services are offered at a minimal cost. These include treatment of common illness and injuries, a full range of sexual health services, anonymous HIV testing, simple lab tests and health edu-

cation. Prescription birth control and medications are offered at a low cost. X-rays, outside lab and other diagnostic tests, and physician or hospital referrals are the student's financial responsibility.

For nonurgent problems, students should make an appointment by calling 410-830-2466 between the hours of 8:30 a.m. and 5 p.m. Walk-in patients will be evaluated by a trained nurse and referred to a Clinician or given a follow-up appointment.

The Student Health Service, located in Dowell Health Center, is open weekdays throughout the year, with the exception of the Christmas and Thanksgiving breaks, university holidays, and inter-sessions. Hours during the regular semester are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday, Wednesday, Friday, 8:30 a.m. to 4:30 p.m. Call for January and summer hours.

For after-hours emergencies, students should call the University Police, 410-830-2133, who will arrange transportation to a local emergency room. For nonemergencies after hours, the Health Center has arrangements with an urgent care center nearby to see students at their own expense. Call 410-830-2466 for this number.

Health insurance is strongly recommended to help defray the costs of services not available at the Health Center. The university offers a very good insurance plan which provides coverage for such services at a very reasonable cost.

All entering students must meet the university's immunization requirements prior to registration. This should be done before arrival on campus to minimize delays in registration. Immunizations are available at the Dowell Health Center for a fee.

The Health Center will provide physical education exemptions and special residence arrangements only with adequate medical documentation from the student's personal physician. Notes justifying class absence are given only under special circumstances at the discretion of the staff. Medical parking permits are issued by the Auxiliary Services Business Office. Students must present documentation from the treating physician indicating the reason and estimated duration of the condition for which parking is being requested.

Athletic medicine services are provided to intercollegiate athletes at the Towson Center Training Room by a staff of athletic trainers under the supervision of a board-certified orthopedic surgeon.

Speech-Language-Hearing Clinic **Van Bokkelen Hall 001, 410-830-3095**

Diagnostic and therapeutic services of the Speech-Language-Hearing Clinic are available, without charge, to all members of the Towson faculty, staff and student body. Speech, hearing, and language evaluations for all ages and all types of communicative disorders and differences are available. Audiological services include complete hearing testing, central auditory processing testing, hearing aid evaluations and hearing aid dispensing. Audiologists evaluate and fit conventional, programmable, and digital hearing aids and assistive listening devices, which can be purchased at the clinic. Appointments can be made by phoning 410-830-3095.

Therapeutic services are provided for children and adults experiencing difficulty in comprehending and using oral communication. Treatment is provided for the following types of communication disorders and differences: language, articulation, cleft palate, stuttering, hard of hearing, auditory processing, voice, aphasia and laryngectomy. Services are also available to improve comprehension and use of standard American English.

Health Insurance **Dowell Health Center, 410-830-2466**

Although the Dowell Health Center offers high quality primary health care to any registered student, regardless of insurance

status, there are times when students need medical services not available at the Health Center. For this reason, all students are strongly encouraged to have health insurance coverage. Resident students and intercollegiate athletes are required to have insurance.

The university offers students an excellent 12-month health insurance policy at a very reasonable cost for the coverage. (See the current brochure for up-to-date premium information.) The plan uses the Dowell Health Center as the primary care provider while school is in session and covers services such as specialty referrals, diagnostic tests, surgical procedures, and hospital care not available at the Health Center. It will cover urgent care and emergency services at other facilities when the Health Center is closed or the student is away from school. Coverage for spouses and children of enrolled students is available. Policies can be purchased for the entire year (August 15 through August 14) or for the second semester only.

Information and enrollment forms will be mailed to all returning students over the summer. New students will be given the brochure and enrollment form in their orientation packet. For additional information, contact the Dowell Health Center.

Housing and Residence Life **Newell Hall, Lower Level, 410-830-2516**

The Residence Life program provides living facilities for students and promotes educational programs and activities which support the academic mission of the university. The Residence Life staff and the University Residence Government strive to maintain an environment conducive to the individual's achievement of academic goals and development of life skills.

Housing and Residence Life offers a variety of living options to accommodate the diverse needs and interests of students.

Identification Card - One Card **University Union 118, 410-830-2284**

The university issues a photo I.D. card to students, faculty and staff called the One Card. The card is free and does not have to be renewed. Students should keep the card with them since it is necessary for using services at Cook Library, Computing and Network Services, and athletic facilities. The card can also be used as a debit card. A Retail Points account, accessed through the One Card, can be used to purchase books, supplies and gift items at the University Store. A student can use the same Retail Points account off the One Card on vending machines, washers and dryers, Cook Library copy machines and Internet Paint machines, and at the Recreation Center, Copies Plus, Health Center, and the Auxiliary Services Business Office. Additionally, the One Card can be used for discount food purchases through use of a Dining Points account. Students save 5 percent on food purchased using Dining Points at all Dining Services locations. The One Card is also a long-distance calling card. The back of the card has the dialing instructions for accessing UniCom, the university's long-distance service. To activate UniCom long-distance service, call 410-830-3724. Students with a meal plan will use the card for access to the dining halls. The One Card provides access to some residence halls and academic labs. The One Card can also be used for obtaining student rates at some sports and entertainment events.

International Students

International Student and Scholar Office

7800 York Rd., Suite 407, 410-830-2421

(This office is moving to the new Administration Building, 7720 York Rd., 2nd floor, during the academic year. Please call before visiting.)

Fax: 410-830-6040

www.towson.edu/isso

The International Student and Scholar Office (ISSO) provides services and programs to more than 800 international students and to international scholars (researchers, guests and visiting faculty). The ISSO offers assistance in the following areas:

- visa applications and immigration related matters
- cross-cultural orientation and adjustment
- mediation of cross-cultural misunderstanding
- success in the U.S. academic environment
- understanding and following university regulations
- using university services
- complying with federal law concerning temporary visa holders
- referrals to community resources
- requests from the community for contact with TU's international population
- emergency situations involving international students.

Staff in the ISSO are authorized by the U.S. Immigration and Naturalization Service (INS) and the U.S. Department of State to endorse visa application certificates, travel documents and INS documents related to employment. ISSO staff assist students with their visa applications and requests to the INS. Advisers provide information sessions, publications, and individual appointments to keep students up-to-date and in compliance with current immigration law. These services are provided before students leave their home countries, upon arrival and throughout their stay in the United States.

At the beginning of each semester, the ISSO holds a two-day orientation program designed to assist students in their initial adjustment to a new culture by

- describing the typical difficulties of cross-cultural adjustment (including culture shock)
- suggesting strategies for successful adjustment and effective intercultural communication
- offering information about the university and the community
- introducing key university service-providing offices
- answering questions about settling into accommodations
- suggesting preparations for success in the new academic environment
- helping in the transition through the creation of a support network
- offering opportunities to build friendships in the first week on campus.

Throughout students' stay at TU, the ISSO provides ongoing advising, services and programs. Students may schedule advising appointments regarding immigration, personal, cross-cultural and academic concerns. From the ISSO, students obtain travel document endorsements; letters to verify immigration status, enrollment and educational expenses; application materials, counseling, INS forms, and authorizations for employment or change of immigration status. Each spring, tax advising programs are organized to educate students about their U.S. tax responsibilities. The ISSO provides information about and referrals to international health insurance plans, as well as general information about obtaining U.S. permanent residency. The ISSO publishes a newsletter about four times a year to communicate immigration law information, recreational opportunities, and other news for or about the international population on campus.

A number of educational, cultural and social activities are planned by the ISSO to foster interaction and improved appreciation among national/cultural groups and the Americans

on campus. The ISSO advises the student-led International Student Association, working with them each year to plan an International Festival and other culture-sharing programs.

Towson University offers an International House as an option in the residence halls. It is a residence that brings together American and international students of various national backgrounds to develop heightened awareness and understanding of the global community. Interacting on a daily basis with fellow students from different ethnic, religious and cultural heritages often fosters rewarding friendships and connections for the International House residents. More than 100 students are currently participating in this residence option.

English Language Center

Media Center 201, 410-830-2552

Fax: 410-830-2090

The English Language Center offers intensive English instruction for students who are preparing for admission to the university or for international and permanent resident students who are admitted to the university and want to further develop their English skills. Courses are designed to develop a student's speaking, listening, reading and writing skills. A TOEFL preparation course and elective courses on pronunciation, vocabulary development and study skills are also offered. A computer resource laboratory is available for students who want to work on specific language areas, such as grammar and structure, reading, and vocabulary development. The center also welcomes individuals who are not preparing for university study but who wish to improve their language skills for employment purposes.

English to Speakers of Other Languages (ESOL)

English Department, Linthicum Hall 218H, 410-830-2944

The English to Speakers of Other Languages (ESOL) testing coordinator tests and places all non-native speakers of English admitted to the university in preparatory college writing courses. When necessary, students are placed in one of three ESOL classes or special sections of Writing for a Liberal Education.

Judicial Affairs

410-830-2057

When a student is alleged to have violated the Code of Student Conduct (*see Appendix F*) or the Housing Contract, this office interviews and counsels students in the discipline process and facilitates the student appeal process. The office also serves as a resource to faculty and administrators.

Parking, On-Campus

Auxiliary Services Business Office, University Union 118

410-830-2284

<http://parking.towson.edu>

The university offers student parking on 13 lots and in two parking garages. Freshmen resident students are not permitted to have a vehicle on campus. All other resident students can buy a resident parking permit. All students who live off campus can buy a commuter parking permit. Permits may be purchased by semester or by academic year. During the fall and spring semesters, a shuttle bus is available to transport individuals between parking lots and academic buildings. The university also provides an evening escort van for students.

The university provides special parking areas for motorcycles, which are subject to the same rules and regulations as automobiles. Uncovered bicycle racks are located at various points around campus. Bicycles should be locked to these racks only. Bicycles may not be stored inside campus buildings. For increased security, mopeds and bicycles should be registered with the University Police. However, the university cannot guarantee the security of any personal property on campus. Owners of soft-top vehicles

should request a window sticker parking permit. For additional information about parking, including campus maps, or to purchase a parking permit online, visit the Web site address listed above.

Post Office

University Union Ground Floor, 410-830-2260

The Post Office provides window service from 9 a.m. until 4 p.m. Monday through Friday. Resident students' mailboxes are at the Post Office, so they should make it a habit to stop by often. New resident students need to visit the Post Office soon after they move in to receive their box numbers and combinations.

Department of Recreational Sports

Burdick Hall 150, 410-830-2367

The Department of Recreational Sports is made up of five programs: Adventure Pursuits, Fitness/Wellness, Informal Sports, Intramural Sports, and Sports Clubs. The programs utilize the three gymnasiums, weight room, Burdick Field, beach volleyball court, pool, climbing wall and tennis courts. Students, faculty and staff are encouraged to use the facilities during open hours. Students are also able to take advantage of the aerobics, fitness assessments and instructional wellness clinics free of charge. The Intramural Sports Program allows students to participate in campus sporting tournaments, while the Sport Clubs Program offers students the opportunity to play socially among themselves and compete against other schools. The Adventure Pursuits Program allows students to explore the world's wilderness as well as climb our indoor wall and kayak in our pool. The student handbook contains information about the program in greater detail.

Religious Activities

Campus Ministry

University Union, 410-830-2268

A variety of faith communities are represented on campus through the support staff assigned to the university. Most advise student religious organizations as well as provide a personal ministry in counseling, theological discussions, and other supportive areas. In addition, most cooperate in sponsoring special programs of speakers, discussions, films, contemporary issues studies and social events.

SAGE (Students Achieve Goals through Education)

University Union 317, 410-830-3789

The SAGE program, one component of TU's student retention effort, encourages new African-American students to excel academically as well as participate in the varied extracurricular activities offered by the university. The program is open to all new students regardless of race or ethnic background. Each entering student is matched with a small group of fellow new students and two upper-class peer mentors. Faculty and staff mentors are available depending upon the student's academic and career interests. SAGE provides information about campus-wide resources and events, sponsors various social activities throughout the year, and offers informal advising services. Students are always welcome at the SAGE office.

Shuttle Bus Service

Towson offers an on-campus shuttle service during the fall and spring semesters. The on-campus bus circles the campus, taking students between the classroom buildings and the parking lots. Visit our Web site: <http://parking.towson.edu> for current shuttle bus and mobility van information, including maps and hours of operation.

Office of Student Activities

University Union 217, 410-830-3307

Fax: 410-830-2219

E-mail: studentactivities@towson.edu

www.towson.edu/studentactivities

Staff in the Office of Student Activities advises the Student Government Association, the Campus Activities Board, and assists all campus student organizations. Staff members plan daytime activities, concerts, trips, movies, leadership development opportunities, and promote community service. Services to students include: off-campus housing listings, commuter information, and general assistance in using public transportation.

Student Government Association

University Union 226, 410-830-2711

The Student Government Association (S.G.A.) recognizes more than 100 clubs and organizations. These groups provide students with a variety of leadership opportunities and experiences, including academic groups, recreational sports (ice hockey and rugby), Greek organizations, honor societies, and cultural, ethnic and religious groups. S.G.A. is the advocate of students, providing educational activities, social awareness and entertainment.

Clubs and Organizations

A complete list of Student Government Association clubs and organizations is available in the Office of Student Activities and also appears in the student handbook. For more information about involvement in clubs and organizations, contact the S.G.A. or the Office of Student Activities.

Students representing TU at events, conferences, or other official activities should obtain a Notification of Absence from Class Form from the Office of Student Activities, University Union, room 217, to be given to their instructors to verify the excused absence. Students are encouraged to notify faculty of anticipated class absences as soon as they learn they will be missing class.

Student Day Care Center

Lida Lee Tall, 410-830-2652

E-mail: studentswithchildren@towson.edu

The Student Day Care Center was established, and continues to be assisted financially, by the Student Government Association. The center provides developmental programming as well as good care for children ages 2 through 5. The center is open in conjunction with the university's academic calendar from 7:30 a.m. to 5:30 p.m. and offers children opportunities for physical, emotional and cognitive growth.

Due to licensing restrictions, space is limited. The center accepts applications to its waiting list whenever parents are ready to submit them, accepting children on a first-come, first-served basis, giving priority to the children of full-time university students. Contact the center for further information.

Students with Children

The Students with Children organization was founded by students and parents at the Student Day Care Center to involve other student families on campus in events and activities, such as parenting discussions, used seasonal clothing sales, and the Scarecrow Party. The thrust of the group is to expand the reach of the Student Day Care Center beyond the confines of the space available and the ages for which it is licensed. For more information, call Harriet Douthirt, 410-830-2652.

Ticket Office

University Union, Ground Floor, 410-830-2244

The Ticket Office provides the university community with a variety of ticket services for both on-campus and area events. Tickets for student-sponsored events, including those offered by

the Campus Activities Board (C.A.B.) and Student Government Association (S.G.A.), are sold through the Ticket Office, which is located on the first floor of the University Union. The Ticket Office is an outlet for Ticketmaster, selling tickets for attractions at the Baltimore Arena, Oriole Park at Camden Yards, and other venues. The Ticket Office also sells discounted movie passes and Mass Transit (bus and Light Rail) passes.

University Store

University Union, Ground Floor, 410-830-BOOK (2665)

The University Store supplies all required and recommended textbooks as well as a selection of general reading material including reference/study aids, current fiction and nonfiction, children's books, newspapers and magazines. Other products sold in the University Store include basic school/art supplies, computer supplies and software, film and film processing, health and beauty aids, snacks and beverages, gifts and greeting cards, music CDs and dry cleaning. Official Towson University emblematic merchandise such as imprinted adult and children's apparel, stationery and giftware distinguish the University Store from other general retail outlets. The approved Towson University class ring is also available through the University Store. The store accepts VISA, MasterCard, Discover, personal checks with appropriate picture I.D., the retail/vending points One Card, and cash. Visit the University Store Web site at www.store.towson.edu.

University Union

Information Desk, 410-830-4636

The University Union is the hub of co-curricular activities and programs for the campus, as well as home to a multitude of student services. Generally, the educational, cultural and social programs held in the union are intended for the entire academic community. The union is a place where commuting students, faculty, staff and alumni can relax, interact, and share common interests and experiences. The following offices and services are located in the University Union:

First floor — A full-service post office; the University Store; VIP's, formerly the Rec Center, includes bowling, billiards, video games, food, entertainment, music and free video rentals; the Auxiliary Services Business Office and the Auxiliary Services Business Office administrative suite; Art Services; the Ticket Office; and the financial operations office of Event and Conferences Services.

Second floor — The University Union Information Desk; the Susquehanna Food Court, a mall style eatery; the Patuxent Room, which offers a more formal dining atmosphere; Sweet Sensations, where yogurt, fresh-baked cookies and muffins, juices, and gourmet coffee are sold; the Auxiliary Services Business Office program suite; the offices of the Student Government Association (S.G.A.); the Office of Student Activities, which includes Commuter Affairs, Greek Life (fraternities and sororities), the Student Leadership Programs, and Off-Campus Housing Programs; the office of the Black Student Union; the Religious Activities Office; the Office of Diversity Resources; the Potomac Lounge, a comfortable study and lounging spot; the Art Gallery; the offices of Event and Conference Services, where reservations for rooms and other campus facilities may be made and audiovisual/technical services requested; and the University Union office suite.

Third floor — Orientation and New Student Programs; the *Towerlight*, Towson University's student newspaper; the African American Cultural Center; the offices of the Students Achieve Goals through Education (SAGE) Program; the office of the Diverse Sexual Orientation Collective (DSOC); several multipurpose conference rooms; and a number of nooks and crannies for contemplation and conversation.

Veterans Office

Enrollment Services Center, 410-830-3094

The office provides coordination between veteran/dependent students and the regional office of the Department of Veterans Affairs. The coordinator establishes procedures and prepares forms and correspondence for eligible students to receive educational benefits. Additionally, the officer monitors class attendance and evaluates academic progress to ensure that those receiving benefits maintain satisfactory progress. This officer also supervises the employment of VA work/study students.

Students taking courses at other institutions concurrently with courses at Towson University may be certified for both institutions by the TU coordinator.

Students may visit the office daily from 8:30 a.m. to 4 p.m. but may wish to call for an appointment.

The normal time for the Veterans Administration to process an enrollment certification is six weeks. Certification is not automatic. The proper VA forms must be completed each semester.

NOTE: Students cannot be certified for courses until they register.

Withdrawals

When students decrease credit load during the course of the semester, they must notify the TU Veterans Office. Failure to do so could result in termination of benefits and a financial debt to the U.S. Department of Veterans Affairs.

FX Grades

Students who receive an FX at the end of a term should contact the university office immediately.

Change of Program

Veterans may change their academic program once without VA clearance. For more than one change of program, however, veterans are required to undergo counseling by the Veterans Administration. A change of program with the VA is required whenever veterans make a curriculum change in which any of the courses for which VA benefits were previously received do not transfer into the new program or whenever students declare a new major or matriculate at a different institution.

Independent Study

Payment for independent study courses will generally be made on a tuition and fees basis only. Monthly rates may be paid for such courses, provided that more than half of the total number of credits for that semester are in courses requiring class attendance. Check with the office to determine eligibility to pay for independent study courses.

Advance Payment

Advance payment is the allowance for the first two months of an enrollment period. All tuition and fees are due according to regular university deadlines and cannot be deferred pending receipt of advance payment. Students may apply for advance pay only if they will be enrolling at the university on at least a half-time basis and meet established deadlines. There must be one full calendar month break between semesters to apply for the advance.

Students may request advance pay for the regular academic semesters by making an appointment to complete required federal forms. *These forms will not be mailed to students and must be signed at least six weeks prior to the beginning of the semester.*

Approved Program

The VA will pay veterans only for the courses listed in the Undergraduate Catalog that are required for a degree. If students take courses in addition to those listed for their approved program, they will not be entitled to receive VA benefits for them.

Vice President for Student Life 410-830-2055

The administrative responsibility for the supervision of the co-curricular life of the university rests with the vice president for student life and his staff. The university, through the Division for Student Life, provides a wide range of support services and programs designed specifically to meet the outside-of-class and co-curricular needs of its students. The division directly supports the total educational experience of students. The operating philosophy of the Division for Student Life rests upon the belief that outside-of-class activities and co-curricular learning complement the formal learning that takes place in the classroom and are part of the student's total education immersion. Efforts are made to ensure that the student life program is planned in such a way so as to be student centered and educational in nature.

The Division for Student Life now has a Student LIFE Line. The purpose of this telephone line is to assist students with any question they may have about the university. The LIFE Line is staffed and ready to assist callers Monday through Friday, 8:30 a.m. until 5:30 p.m. After these hours, a voice-mail message can be left and will be responded to the next business day. Should students need to call, the number is 410-830-LIFE (x5433).

Women's Center

Media Center, 410-830-2666

The Women's Center is located on the third floor of the Media Center and consists of a lounge, browsing library and office. The drop-in lounge is available to all for study, conversation or a moment of relaxation.

A wide ranging referral system offers information about campus and community groups and organizations, individuals with skills and expertise in specific areas, and individual professionals in the fields of medicine, law, mental health, etc. The center provides a bulletin board where job notices, conferences, and newsletters relating to women from all over the country are posted.

Throughout the academic year, a variety of programs will be offered free of charge to the public.

The center serves as an advocate and liaison for women students, staff and faculty.

Academic Resources

Towson offers its students many opportunities to enhance their lives with academic support and extracurricular activities. Some of these programs will help students with their studies, while others will provide cultural enrichment.

ACADEMIC ADVISING

Lecture Hall 1, 410-830-2330

Margaret Faulkner, *Associate Vice President for Student Academic Services*

This office coordinates all undergraduate academic advising, including services offered by the Academic Advising Center and the Department of New Student Registration. Towson University is committed to providing comprehensive advising designed to enrich the educational experiences of every student. Towson offers a unique advising program for freshmen called the First Year Experience. All students are encouraged to seek advising at any time during the academic year. Students who have chosen a major must go to the appropriate academic department office to complete a Declaration of Major Form. While there, they will be assigned to faculty advisers.

Academic Advising Center

Lecture Hall, 410-830-2472

Lynne Dowell, *Director*

The Academic Advising Center supports the advising needs of the university's students and faculty. This center serves as a clearinghouse for information about the university's policies, procedures and requirements. Its advisers help students review their progress toward the fulfillment of GenEd or GUR requirements and advise students about developing academic goals, planning programs, selecting courses, investigating majors and minors, clarifying catalog year choices, and meeting standards. Students who have completed 75 credit hours receive an audit of their progress toward graduation. In addition, the center advisers conduct special advising for students who have received academic warnings or who are on academic probation, and advise students whose health necessitates a reduced course load. Students who have questions or concerns prior to meeting with their faculty adviser can meet with trained peers through the Student Academic Advising Program, Lecture Hall 7-B, 410-830-3497.

The Academic Advising Center also administers the Degree Navigator online audit system, located at <http://degnavsr.towson.edu>. The Degree Navigator is a software tool designed to assist students and advisers in evaluating academic progress toward any major or minor at Towson University. It is especially useful for students who are evaluating their General Education requirements, or for open majors who would like to see how many more courses would be necessary to complete different degrees. Finally, Degree Navigator allows students to check grades and read course descriptions from all Towson catalogs since 1996.

New Student Registration

Lecture Hall, 410-830-2472

As new freshmen matriculate at Towson University, they work with the Office of New Student Registration to select courses to meet their goals and interests. Professional advisers coordinate the first semester's course schedules with information supplied to New Student Registration by the student. New students will meet with professional and faculty advisers during the summer to confirm their schedules and to be assigned to a First-Year Experience (FYE) adviser.

The First-Year Experience is a unique program for freshmen which pairs incoming students with a faculty member or profes-

sional adviser who has received special training in the Faculty Institute. Together, advisers and students work throughout the first year to orient the new college student to the university and to identify and use resources that will enhance the student's educational experience. The relationship between the FYE adviser and the new student helps develop successful, active members of the university community who are able to make effective educational decisions.

Following the First-Year Experience, students who have chosen a major will be advised by faculty advisers within the major department. Students who are still exploring their choice of major may be re-assigned to the professional advisers within the Academic Advising Center.

CENTER FOR INSTRUCTIONAL ADVANCEMENT AND TECHNOLOGY (CIAT)

Cook Library 424, 410-830-2005

The Center for Instructional Advancement and Technology (CIAT) supports Towson University's commitment to excellence in teaching. It is the faculty's central resource where solutions to enhance teaching and learning can be explored and developed. CIAT provides faculty the opportunity to investigate and apply current and experimental technologies to instructional delivery.

The CIAT staff works with faculty to design curriculum and courses, develop course materials and teaching and learning strategies, and to use powerful new technology applications that apply to teaching and learning. Although the services and resources of CIAT are reserved primarily for faculty, graduate assistant and internship opportunities are available for students who are interested in instructional technology, instructional design, multimedia, and Web resource development.

COMPUTING AND NETWORK SERVICES (CANS)

CANS Help Center, Cook Library 5, 410-830-5151

Fax: 410-830-6177

E-mail: helpcenter@towson.edu

www.towson.edu/cans

Computing and Network Services (CANS) provides computing support for all university students, faculty and staff. The CANS Help Center is the best location to find out about all the computing resources available.

- Located on the first floor of Cook Library, the CANS Help Center provides a single point of contact for questions relating to e-mail accounts, Web access, General Computing Labs, PC networked classrooms, training, and telecommunications.
- The General Use Computing Labs are located in Cook Library, room 35, and provide access to the Web in addition to standard Microsoft application software such as Word, Excel, Access, etc. Additional software such as Corel WordPerfect is also available.
- Hours of operation for the CANS Help Center are Monday through Thursday, 8 a.m. - 11:30 p.m.; Friday, 8 a.m. - 5 p.m.; Saturday, 10 a.m. - 6 p.m.; and Sunday, 2 p.m. - 10 p.m.

FINE ARTS

Towson University, a center for the fine and performing arts in the Baltimore area, offers students a host of programs and concerts, many free of charge. In addition, Towson is home to the Maryland Arts Festival, an array of live theater, concerts, films, lectures and musicals, celebrating its 19th season in the summer of 2000.

Art Galleries

Asian Arts & Culture Center, Center for the Arts 236
410-830-2807

The Asian Arts & Culture Center is a key resource for students and faculty in such fields as art history, Asian studies, music, philosophy and theatre. The center regularly hosts exhibitions, lectures/workshops and films and concerts, featuring nationally and internationally renowned speakers, artists and performers. In addition to covering the spectrum of Asian art, the center also proudly serves as a social and cultural link between metropolitan area Asian communities and the university.

As a museum, the center houses and displays many of the university's most significant and valuable pieces of art in the Roberts Gallery. The Roberts Gallery, however, is more than just a showcase for the visual, aesthetic and cultural values of Asian art. It is a highly visible symbol of the university's commitment to the arts and to its goals of developing and nurturing multicultural awareness in an academic setting.

Holtzman Art Gallery, Center for the Arts Lobby
University Union Art Gallery, University Union 2nd Floor

Both galleries present a variety of exhibits to the Towson community, including student and faculty shows as well as national and international exhibitions. The Holtzman Gallery emphasizes contemporary art, while the Union Gallery focuses on M.F.A. thesis exhibitions and works by local artists.

Lieberman Collection, Honors College

Lecture Hall, Lieberman Room

The Lieberman Collection of 40 oil paintings, sculptures, ink drawings, lithographs, photographs and art books was donated to Towson University by Dr. and Mrs. Sidney Lieberman in memory of their sons. The collection is on display in the Lieberman Room, located in the Lecture Hall. Used primarily by students in the Honors College as a quiet place to read or study, the room is open to the public during the university's normal hours.

Dance

The TU Dance Company is considered one of the premier university dance companies in the mid-Atlantic region. The company presents an annual concert of the Second Act of *Nutcracker*, and regularly performs works by internationally and nationally recognized choreographers, as well as classical ballets. The Department of Dance produces the faculty-alumni concert, dance majors performance project, and Sigma Rho annual dance showcase.

Film

The TU Film and Video Society offers a free film series during the fall and spring semesters. Sponsored by the Department of Mass Communication and Communication Studies, the films are screened in Van Bockelen Auditorium. The S.G.A. presents a weekly series of recently released box office hits at student discount prices.

Music

The Department of Music's instrumental and vocal ensembles — including University Chorale, Chamber Singers, Choral Society, Orchestra, Symphonic Band, Percussion Ensemble, Woodwind Ensemble, Clarinet Choir, Saxophone Ensemble, Flute Ensemble, Brass Ensemble, Guitar Ensemble and Early Music Ensemble — present more than 200 concerts each year in the Concert Hall at Towson's Center for the Arts. Many concerts are free of charge; others offer discounts to students and faculty.

Theatre

Towson presents many productions each year in our three campus theatres, as well as at the Baltimore Theatre Project downtown and in other local venues. They range from Shakespeare to musicals to new experimental performances, featuring Towson theatre majors, as well as talented students from other disciplines. Prices vary, but students pay a discounted rate.

INTERNATIONAL EDUCATION

Office of Academic Programs

Enrollment Services Center 322

(This office is moving to the new Administration Building, 7720 York Rd., 2nd floor, during the academic year. Please call before visiting.)

410-830-2919/3828

Fax: 410-339-7151

E-mail: international@towson.edu

www.towson.edu/international

Dean Esslinger, *Associate Vice President, Academic Programs*

Donna Coale, *Executive Administrative Assistant*

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Mary Hilton, *Assistant*

Ellen Lichtfuss, *Publications Coordinator*

International Education is the central academic unit for the coordination and supervision of the university's international programs and activities. The office coordinates faculty and student exchange programs with foreign institutions. It oversees the functions and policies of the International Student and Scholar Office, the International Admissions Office, and the Study Abroad Office. It seeks to promote better understanding of international and cross-cultural issues within the context of education to the university and external community, including schools, businesses, local government and the University System of Maryland.

In its commitment to internationalization, International Education offers a variety of services to international students and scholars, the university's student body, faculty and staff, and to the community. It also provides consultation and referral support to other academic departments, local government offices, and businesses.

Central administration for the International Education unit is housed in the Office of Academic Programs and is directed by Dean Esslinger, associate vice president for Academic Programs.

LIBRARY/MEDIA SERVICES

Albert S. Cook Library

410-830-2461

The Albert S. Cook Library, located near the center of the campus, is an open stack library with a seating capacity of 1,043. It serves as the hub of information resources for the university. The collection of approximately 528,000 volumes, 757,000 microform units, and over 2,100 periodical subscriptions has been selected to support the curriculum. The library is a depository for Maryland state documents and has collections of textbooks and curriculum guides for elementary and secondary education, a collection of educational resource documents (ERIC microfiche), a collection of early English literature, a strong women's studies collection and a microfilm set of early American periodicals. These materials are accessed through an integrated online catalog which includes not only the holdings of Towson but also the resources of the other libraries in the University System of Maryland. A cooperative borrowing and delivery agreement with the other USM libraries exists to help share library materials. Other bibliographic computer networks provide access to state and national databases. Among the facilities in the library are individual carrels for quiet study. There are also microfilm readers and printers.

Reference Department services include group and individual instruction in finding materials for class assignments and use of

the various tools to enable students to locate, evaluate, and effectively use information for any need.

The Media Resource Services Department provides audiovisual equipment circulation for the campus and access to the film, video soundrecording and multimedia CD-ROM collections in room 202. The university's collection of about 16,000 media items is accessed through the library's online catalog for use in class and student assignments. The collection contains commercial and locally produced 16mm films, video programs, classic works, recorded satellite resources and video conferences for use within the Media Viewing Lab. The lab area provides a quiet area with multiple stations where students can complete viewing assignments or use material placed on faculty reserve.

NON-DEGREE STUDENT ASSISTANCE

The Office for Non-Traditional Undergraduate Programs offers assistance to non-degree students enrolling for courses. The office is located in room 223 in the Enrollment Services Center, 410-830-2471 or 410-830-2022.

TUTORING AND ACADEMIC SUPPORT

Tutorial and Testing Services Center

7800 York Road, Lower Level 10, 410-830-2291

(This office is relocating during the academic year to the new Administration Building, 2nd floor. Please call before visiting.)

Sometimes students require tutorial support or testing accommodations to achieve outstanding academic performance. The instructor is usually the best resource for help when difficulties related to course content arise. Additional resources, including free tutoring and testing accommodation, are available through the Tutorial and Testing Services Center. Tutoring services are available for most lower-division and a limited number of upper-division undergraduate courses. Tutoring is provided on a first-come, first-served basis, in small group or individual sessions, and depends upon the availability of qualified tutors.

Students are usually scheduled for one or two hours of tutoring weekly per course. Some tutoring services are provided on a walk-in basis by the College of Science and Mathematics. Computer-assisted instruction is also available for students enrolled in Accounting Principles courses as well as a study skills program addressing time management, note-taking and related topics.

The center also provides supplemental computer-assisted instruction in accounting and study skills. LASSI, a learning and study strategies inventory, allows students to evaluate their study habits and attitudes in several areas including motivation, anxiety, attitude, information processing, selecting main ideas and test taking. Enrichment strategies are recommended after students complete LASSI.

Proctored testing accommodations are available for students registered with the Disability Support Services Office or students who must make-up missed tests, retest or test early. Proctored testing accommodations include, but are not limited to, extended testing time, minimal distraction testing environment, computer use, enlarged printed materials, scribes and readers. Contact the Tutorial and Testing Services Center at least one week before a scheduled testing date.

Additional academic support and tutorial services available on campus include:

Computer Science

Stephens Hall 309E

410-830-2424

Mathematics

Smith Hall 360

410-830-3054

Modern Languages
Linthicum Hall 319F
410-830-2880

Music Lab
Fine Arts Center 387A
410-830-3898

Natural Sciences
Smith Hall 538
410-830-3054

Reading, Special Education
and Instructional Technology
Hawkins Hall 209
410-830-2576

The Writing Lab
Lida Lee Tall 308, 410-830-3426
Students who feel uncomfortable with their writing, have trouble figuring out what their professors want, or simply wish to discuss their writing with a peer, may visit the Writing Lab, which offers experienced help in a relaxed, informal setting.

Housing and Residence Life

OFFICE
Newell Hall
Phone: 410-830-2516
Jerry Dieringer, *Director*

HOUSING AND RESIDENCE LIFE

Housing and Residence Life provides living facilities for full-time degree candidates and promotes educational programs and activities that support the university's academic mission. The Housing and Residence Life staff and the University Residence Government strive to maintain an environment that encourages academic excellence, community responsibility and individual development.

Towson University's Residence Life program provides on-campus housing for approximately 3,300 students.

- Resident students must sign a contract for university housing, renewable at the option of the university, and must carry a minimum of 12 credits. Priority is given to undergraduate students.
- Residents must vacate the residence halls after they complete their final semester examination.
- Housing facilities are available to students only when classes are in session. Some special interest programs are open year-round.
- The Housing and Residence Life staff offers assistance and programs for resident students.
- A number of special living options are available, including smoke-free areas, alcohol-free areas, special quiet options, honors housing and the International House.

University Housing *Glen Complex*

Connected to the rest of the campus by a bridge that crosses over the Glen, this complex includes four high-rise towers housing about 425 students each. All student accommodations are suites, with two double rooms sharing a bath. There is a lounge area on each floor and a centrally located dining hall in the complex.

Newell Hall

Completely renovated in 1997, Newell was the first residence hall built on campus. A brick building of Jacobean design, it houses 211 students.

Prettyman and Scarborough Halls

These low-rise residence halls enclose a garden courtyard and house approximately 160 students each.

Residence Tower

This 13-story, high-rise residence hall accommodates approximately 455 students in double and single rooms. There is a lounge area, study room and kitchen on each floor, and a recreation room and laundry facility on the lower level of the building. The Residence Tower accommodates students requesting the International House and is an excellent option for students who require year-round accommodations. Both nine- and 12-month housing options are available.

Richmond Hall

Designated as the university's Honors residence hall, Richmond houses 107 students. A brick, Jacobean-style building, Richmond was one of the first residence halls built on campus. It was completely renovated in 1998.

Towson Run Apartments

These one-, two-, and four-bedroom apartments for upper-level undergraduate students are fully furnished. In addition to double bedrooms, each apartment has a full kitchen and living/dining room. Approximately 420 students are housed at Towson Run. A nine-month housing option is available.

Ward and West Halls

These twin low-rise residence halls for men and women accommodate about 60 students each. A large study area is located on the lower level of each building.

On-Campus Adult Apartments

Burkshire at Towson University
10 W. Burke Avenue
410-324-8108

University-owned and located on campus at the corner of York Road and Burke Avenue, the Burkshire offers one bedroom, one bedroom with den, and two bedroom with den apartments featuring a full kitchen, washer and dryer, air conditioning, cable TV, and free storage locker. The Burkshire's apartments are available to students who are juniors with a 2.85 QPA or above, seniors, graduate students, married students, students 23 years or older, and faculty and staff. The Burkshire is a good choice for students interested in a quiet nontraditional housing alternative.

Millennium Hall**Capstone Properties On-Campus**

7800 York Road, Room 150

(This office is moving to Millennium Hall in August. Please call before visiting.)

410-296-8088

Millennium Hall, Towson University's new five-story residence building, offers housing for 400 sophomores, juniors and seniors in four-bedroom furnished apartments. Owned and managed by Capstone Properties On-Campus, the building is Towson's first privatized residence hall. Each four-bedroom apartment accommodates four students and is fully furnished, with a living/dining room and full kitchen. Each bedroom has a telephone jack, cable TV, and computer connection. The building is air-conditioned and has a laundry room on the first floor.

Expenses

Expenses are estimates at the time of printing this catalog and are subject to revision. Tuition, housing and boarding costs and other fees are subject to change at any time by action of the Board of Regents.

APPLICATION AND ENROLLMENT FEES

Each applicant must pay a nonrefundable application fee of \$35. No application will be processed without this fee or a valid waiver.

Once students are admitted for fall 2000, a nonrefundable \$275 enrollment fee must be forwarded to the Office of Admissions to reserve a place in the class. A \$25 advising and scheduling fee will be charged at the time of billing for semester charges. Beginning with the spring 2001 semester, the enrollment fee will be \$300 and will include the advising and scheduling fee.

TUITION

The University System of Maryland Tuition Policy, approved by the Board of Regents on June 11, 1993, established *nonresident tuition* at the calculated actual educational cost at each institution within the system and based the increase in the nonresident tuition and fees on that cost. Additionally, the policy recommends each institution to provide a four-year plan of tuition and fees for both resident and non-Maryland resident students. The two charges — Maryland resident and non-Maryland resident — shown below provide the projected, per semester rates for fall 2000 through fall 2003.

The tuition and fee increases for the next three years are based on fall 1999 rates. They do not include increases related to inflation and other cost factors not known at this time.

The tuition policy is available for review in the following offices:

- All academic departments
- Office of the Bursar
- English Language Center
- College of Graduate Education and Research
- International Student and Scholar Office
- Enrollment Services

MARYLAND RESIDENTS				
	Projected			
Tuition and Mandatory Univ. Fees (Per Semester)	Fall 2000	Fall 2001	Fall 2002	Fall 2003
Full-Time Undergraduate (12 credits or greater) Tuition Mandatory Univ. Fees Total	\$2360/sem	\$2460/sem	\$2565/sem	\$2674/sem
Part-Time Undergraduate (Fewer than 12 credits) Tuition Mandatory Univ. Fees Total	\$193/cr	\$201/cr	\$209/cr	\$217/cr
Graduate Tuition Mandatory Univ. Fees Total	\$247/cr	\$257/cr	\$267/cr	\$278/cr

NON-MARYLAND RESIDENTS				
	Projected			
Tuition and Mandatory Univ. Fees (Per Semester)	Fall 2000	Fall 2001	Fall 2002	Fall 2003
Full-Time Undergraduate (12 credits or greater)				
Tuition				
Mandatory Univ. Fees				
Total	\$5575/sem	\$5903/sem	\$6251/sem	\$6619/sem
Part-Time Undergraduate (Fewer than 12 credits)				
Tuition				
Mandatory Univ. Fees				
Total	\$405/cr	\$429/cr	\$454/cr	\$480/cr
Graduate				
Tuition				
Mandatory Univ. Fees				
Total	\$454/cr	\$481/cr	\$509/cr	\$539/cr

MANDATORY UNIVERSITY FEES

A comprehensive Mandatory University Fee is charged to each student each semester. This fee varies based on a student's tuition classification as indicated on the chart below. The fee supports student activities, athletics, university funded construction and transportation.

A \$40 Overload Surcharge Fee will be assessed per credit hour for all credits over 15 per semester.

TUITION AND FEES PER SEMESTER

Subject to change by the Board of Regents.

Registration	Residence Status	Tuition*	Mandatory University Fee	Surcharge Overload Fee**
Undergraduate fewer than 12 crs.	In-State	\$ 150/cr.	\$ 43/cr.	
fewer than 12 crs.	Out-of-State	\$ 362/cr.	\$ 43/cr.	
Undergraduate 12 or more crs.	In-State	\$1,733 flat	\$627 flat	\$40/cr.
12 or more crs.	Out-of-State	\$4,948 flat	\$627 flat	\$40/cr.
Graduate	In-State	\$ 203/cr.	\$ 44/cr.	
	Out-of-State	\$ 410/cr.	\$ 44/cr.	

*Refer to Appendix C for tuition residency qualifications.

**An Overload Surcharge Fee is assessed per credit hour for credits over 15.

The university may assess a special fee (i.e., lab fee) for certain courses beyond the credit hour fee.

ACADEMIC FEES

1. Information Technology Fee

General Education (GenEd) courses in Category I.B., Using Information Effectively, carry a one-time \$200 fee. The courses have technology components and/or special assignments that require additional university resources. The courses are subject to change on a semester basis.

GenEd I.B. Using Information Effectively (UIE)

ART100	INST100	POSC100
COSC111	ISTC201	PSYC100
COSC112	ISTC202	SOCI100
ENGL152	MCOM100	THEA125
GEOG230	MUSC100	THEA126
IDHP110	OCTH211	
IDLA100	PHIL102	
IDNM101		

2. Advanced Writing Course Fee

General Education (GenEd) courses in Category I.D., Advanced Writing, carry a one-time \$200 fee. The courses are writing intensive and small in class size. They emphasize enhancement of student writing skills to enable students to write for their discipline. The courses are subject to change on a semester basis.

GenEd I.D. Advanced Writing Course (AWC)

ANTH401	ENGL316	
ART351	ENGL317	
BIOL381	ENGL318	MUSC302
CHEM301	GEOG383	NURS433
DANC321	HIST300	OCTH430
ECED422	HLTH315	PHIL460-469
ECON323	HLTH316	PSYC314
ECON325	KNES351	SOCI300
ECON333	KNES353	SPPA417
EDUC301	KNES357	THEA307
EMF363	KNES417	WMST333
EMF377	KNES469	WRIT312
ENGL310	MCOM356	WRIT354
ENGL313	MCOM357	WRIT375
ENGL315		

3. Lab/Lab-Lecture Course Fee

A \$50 fee is charged for selected courses that have either a lab course designation, or a lab-lecture component. These courses are offered through various academic departments and are designated as LAB and LLB in the *Schedule of Courses*. (Various course-based fees for courses designated as PRC, STT, and CIN will continue to be applied).

4. Major/Special Equipment Fee

Students currently declared as a major in the departments and programs listed below will be charged a one-time \$200 fee to defray the high costs incurred for special equipment and resources associated with these departments and programs. Students will be billed only if their primary major is one of the programs listed. Students pursuing any of these programs as a second major will not be billed. Students who change their major from one of the programs listed below to another pay the fee only once. This list is subject to change on a semester basis.

Accounting
Art
Art Education
Athletic Training
Biology
Business Administration
Chemistry
Communication Sciences and Disorders
Communication Studies
Computer Information Systems
Computer Science
Electronic Media and Film
Environmental Science and Studies
Exercise Science
Geography and Environmental Planning
Geosciences
Gerontology
Mass Communication
Mathematics
Music
Music Education
Nursing
Occupational Therapy
Physics
Psychology
Theatre

OTHER FEES AND EXPENSES

TEXTBOOKS

Students are expected to buy the textbooks for their courses. The average cost for textbooks is \$350 per semester. Books and other supplies may be purchased at the University Store.

STUDENT TEACHING/CLINICAL PRACTICUM FEES

Students enrolled in student teaching or a clinical practicum are charged a fee ranging from \$200 to \$400 per experience. Students must confer with their department chair or with the director of the CASE office in the College of Education to determine the exact fee. These courses are designated PRC, STT and CIN in the *Schedule of Courses*.

PRIVATE MUSIC LESSON FEES

Students enrolled in private music lessons are charged a fee of \$100 or \$260 per credit, depending upon course registration.

STUDY ABROAD FEES

A fee of \$100 for the fall and spring semesters, \$50 for summer, and \$40 for Minimester is assessed for Study Abroad Programs.

PARKING FEES

All students are required to register their automobiles with the university in order to obtain a parking permit. Parking permits do not guarantee a space on campus; however, they are required to park on any university parking lot or garage. Permits may be purchased for a semester or an academic year. Freshman resident students are not eligible to park on campus.

Parking permits may be purchased over the Towson University Web page, <http://parking.towson.edu>. Campus maps and other parking related information is also available at this Web site. In addition, parking permits may be purchased from the Auxiliary Services Business Office, University Union, room 118. For questions or additional information, call 410-830-2284.

2000-2001 Parking Permit Costs:

Summer 2000	\$30
Annual 2000-2001	\$150
Fall 2000/Minimester 2001	\$80
Spring 2001-Summer 2001	\$80
Evening (valid after 3p.m. only, M-F)	
One semester only	\$35
Annual	\$55

HOUSING AND DINING FEES

Students interested in living on campus must make a \$225 non-refundable housing deposit. Failure to pay all room and board charges may result in forfeiture of residence hall space.

Depending upon the room and meal plan selected, students living on campus may pay approximately \$2,900 per semester for room and meal plan.

For those students who enter university housing after the beginning of a semester, the charge will be prorated for the remainder of the semester. (For exact rates, contact Housing and Residence Life.)

For the 2000-2001 academic year, resident students can choose from traditional weekly meal plans of 19 at \$1,300, 14 at \$1,225, 10 at \$1,110, or five at \$640 per semester. All plans offer a choice of both kosher and standard menu items. An additional choice is the new Unrestricted Meal Plan, which offers students the option of eating at any time and as often as they desire. Pricing is a little higher on this option, but it gives students complete flexibility to use meals at any time during the week.

Students living off-campus and at the Berkshire, Millennium Hall or Towson Run Apartments may select any of the plans listed above, or may choose one of the Block Meal Plans which offer a specific number of meals per week each semester at a fixed price. Prices are subject to change.

BURSAR FEES

A \$75 late fee is assessed any student whose tuition and fees bill is received for processing after published deadlines. Received for processing is defined as the Office of the Bursar receiving the *bottom portion* of the billing statement with payment or verification of funds to cover *all* charges — again, these must be received by the published deadline.

A \$10 Archived Records Research Fee will be assessed when financial detail involving archived records is requested.

A \$50 penalty fee is assessed when a check given in payment of fees, fines or services is returned unpaid by the bank for any reason. Failure to reimburse the university for an uncollectable check may result in class schedules being cancelled.

A \$25 late collection fee will be assessed should an account become delinquent and deemed uncollectable, thus requiring referral to the Central Collection Unit of the state of Maryland. This fee is in addition to the collection fee assessed by the Central Collection Unit of the state of Maryland. See *Payment of Fees*, below.

GRADUATE CHARGES

The following policies apply to graduate students taking a mix of undergraduate and graduate courses and TU seniors taking a graduate course (with special permission).

If a graduate student takes a mix of graduate and undergraduate courses and the undergraduate credit-hour load is fewer than 12 credits, the individual is to be billed per credit-hour in each category and part-time university fees. If the undergraduate credit hour load is 12 or more credits, the flat undergraduate tuition rate and full-time university fees are billed with the graduate credit hours billed at the per credit hour graduate tuition rate.

This policy applies to graduate students taking all undergraduate courses. If the credit hour load of undergraduate courses is 12 credits or more, the individual is to be billed the flat undergraduate tuition and the flat full-time university fees.

PAYMENT OF FEES

All checks or money orders should be made payable to Towson University for the exact amount of the charges. The student's name and Social Security number must appear on all checks submitted to the university. The university offers a payment plan administered through Academic Management Services (AMS). The AMS payment plan extends to students a monthly budget plan for meeting expenses. Students who choose such a payment plan may arrange payment through AMS, 800-635-0120. AMS is not, however, affiliated with the university and does not act as the university's agent; accordingly, the university bears no responsibility for the acts or omissions of AMS. Moreover, a student's liability for tuition and fees is not discharged until payment is made in full. The *Discover*, *MasterCard* and *Visa* credit cards can be used for tuition, fees, room, meal plan, and other charges. *It is imperative that students adhere to processing deadlines. Whether students need to make a payment or not, the bottom portion of the billing statement MUST be returned to the Office of the Bursar (Enrollment Services Center) by the scheduled processing date, or students' schedules will be cancelled. Bills must be processed through the Office of the Bursar for students to be officially registered. The university does not assume students are planning to attend if they have not returned the bottom portion of the billing statement.* WARNING: Processing of financial billing statements is the responsibility of the student and is due to the university each semester as outlined in the *Schedule of Courses*. Nondelivery of the billing statement does not release you from the payment or late payment assessments.

Financial policy set by the Board of Regents and supported by the legislative auditors of the state of Maryland states that *all*

previous balances must be paid prior to registration for the following academic semester. The university employs a "first in/first out" technique when applying payments to accounts. Therefore, payments are used to satisfy the oldest outstanding charge prior to applying any portion of a payment to current or more recent charges. Should the account of any student become delinquent and sent to the Central Collection Unit of the state of Maryland, it is deemed delinquent, and a collection fee not to exceed 20 percent will be charged to the student. In accordance with COMAR Title 17, Subtitle 01, Chapter 02, Section 01 through 05, the Central Collection Unit of the state of Maryland will report debt to a credit bureau and begin intercepting Maryland income tax refunds of individuals indebted to the state colleges and universities for tuition, fees, and other costs. Students with outstanding balances should contact the Office of the Bursar. Transcript and diploma requests will not be honored if a student has a financial obligation to the university. Payments made by check will be subjected to a waiting period of 10 to 30 working days prior to transcripts or diplomas being released or refunds being processed.

PLEASE NOTE: The university will retroactively bill when coding errors are identified.

REFUND POLICIES

Students withdrawing from the university must complete an official Withdrawal Form before they are entitled to any refund. Withdrawal Forms must be processed by Enrollment Services. The date of withdrawal will be the date on which written notice of withdrawal is received.

For additional information regarding withdrawal, see the Academic Regulations section of this catalog.

Fall/Spring Withdrawal Refund Policy

Notification to the instructor does not constitute proper withdrawal. Withdrawal Forms must be processed by Enrollment Services. The date on which written notice of withdrawal is received determines the percentage of refund. All refund percentages are based on the official start of the semester. The timing for effecting refunds is as follows:

1. Through the end of each change of schedule period, 100 percent of tuition and fees is refunded the student.
2. Beginning with the ninth calendar day through the 21st calendar day after the official start of the semester, 50 percent of *tuition only* is refunded the student who fully withdraws from the university.
3. Beginning with the 22nd calendar day after the official start of the semester, no tuition and fees are refunded the student.

NOTES: Based on documentation of extraordinary circumstances, including medical, exceptions may be made to this policy. Requests for exemptions for extraordinary circumstances should be submitted immediately; however, *no requests will be considered 30 days beyond the session in question.* Undergraduate students should contact Enrollment Services (410-830-2701), and graduate students should contact the College of Graduate Education and Research (410-830-2078).

Any unpaid charges on a student's financial account with the university will be subtracted from the refund due prior to processing the refund request. For payments made by credit card, refunds will be credited to the original credit card account and will be reflected on the credit card monthly statement. All questions regarding fees and tuition should be referred to the Office of the Bursar, Enrollment Services Center, 410-830-2100 or 1-888-5BURSAR.

Second Seven-Week Fall/Spring Withdrawal Refund Policy

Notification to the instructor does not constitute proper withdrawal. Withdrawal Forms must be processed by Enrollment

Services. The date on which written notice of withdrawal is received determines the percentage of refund. All refund percentages are based on the official start of the session.

Students are considered full-time when carrying 12 credits or greater; therefore, refunds apply only to credit hour loads under 12. The timing for effecting refunds is as follows:

1. Through the first day of classes after the official start of the second seven-week session, 100 percent of tuition and fees is refunded the student.
2. During the second and third days of classes after the official start of the second seven-week session, 50 percent of *tuition only* is refunded the student.
3. Beginning the fourth day of classes after the official start of the second seven-week session, no refund is issued.

NOTES: Based on documentation of extraordinary circumstances, including medical, exceptions may be made to this policy. Requests for exemptions for extraordinary circumstances should be submitted immediately; however, *no requests will be considered 30 days beyond the session in question.* Undergraduate students should contact Enrollment Services, and graduate students should contact the Graduate School.

Any unpaid charges on a student's financial account with the university will be subtracted from the refund due prior to processing the refund request. For payments made by credit card, refunds will be credited to the original credit card account and will be reflected on the credit card monthly statement. All questions regarding fees and tuition should be referred to the Office of the Bursar, Enrollment Services Center, 410-830-2100 or 1-888-5BURSAR.

Fees

The following fees are nonrefundable:

1. Late payment fee
2. Note processing fee
3. Room deposit fee
4. Enrollment contract fee
5. Application fee
6. Advising and scheduling fee

The following fees are nonrefundable after the official start of classes for the semester:

1. Housing fee
2. Applied fee (private instruction, student teaching, clinical practicum, etc.)
3. Parking permit fee

The Board Plan Fee is prorated weekly.

The following fees are nonrefundable after the official change of schedule period:

1. Mandatory University Fees
2. Surcharge/Overload Fee
3. Course-Based Fees
4. Major/Special Equipment Fees

INSURANCE PLAN

A sickness and accident insurance plan designed especially for Towson University students is offered at a nominal fee. Although this plan is voluntary, some basic medical coverage is required of all students who live on campus, as well as students who participate in any physical education class or extracurricular athletics. Proof of sufficient coverage must be submitted to Housing and Residence Life. Billing statements will not reflect the cost of the insurance. Enrollment is handled directly through the insurance company. Should a student withdraw from the university, coverage will remain intact for the policy year. Any questions regarding coverage should be directed to the Counseling Center, Glen Esk, 410-830-2512. (See **Insurance under University Life** section.)

Financial Aid

OFFICE

Enrollment Services Center, 410-830-4236

Fax: 410-830-2584

<http://onestop.towson.edu/finaid>

Student financial aid from the university includes grants, loans, scholarships and employment. Funds for these programs come from the U.S. Department of Education, the state of Maryland and Towson University. The objective of these programs is to help students pay the difference between the cost of education and the amount their families can contribute:

Cost of Education

- Expected Family Contribution (EFC)
- Outside Resources (state/private scholarships, etc.)
- Need for Title IV and university funds

The U.S. Department of Education calculates the EFC from the information that the student and the student's family provide on the Free Application for Federal Student Aid (FAFSA). The EFC formula considers income, assets, family size and number of family members in college.

The cost of education includes direct costs such as tuition and fees and room and board as well as indirect costs including transportation and personal expenses.

ESTIMATED COSTS FOR UNDERGRADUATE STUDENTS*

	COMMUTER	RESIDENT	OUT-OF-STATE
Tuition/Fees	**\$4,710	**\$4,710	**\$11,140
Room/Board	1,500	5,800	5,800
Books	790	790	790
Transportation	1,680	1,500	1,500
Personal	900	1,460	1,460
Total	\$9,580	\$14,260	\$20,690

**Figures shown are for full-time enrollment for an academic year and are subject to revision. Students receive a bill from the university each semester for tuition/fees, and, if the student lives on campus, room and board charges. All other costs shown above (including books) are estimates of indirect costs not billed by the university.*

***Students may incur additional academic fees, depending on courses taken. Please refer to the Expenses section of the Towson University Undergraduate Catalog.*

STUDENT ELIGIBILITY

Factors that determine eligibility for aid include:

- financial need (except for unsubsidized loans)
- degree candidacy or formal admission as a regular student making satisfactory academic progress toward a degree or certificate
- U.S. citizen or eligible non-citizen status
- possession of a valid Social Security Number
- certification that the applicant is not in default on a student loan and does not owe a repayment of a federal Title IV grant
- registration for the Selective Service

DEADLINE AND APPLICATION PROCEDURES

All students must reapply for financial aid annually. The process of applying for and receiving financial aid is lengthy. Students should apply as soon as possible after January 1, and mail the FAFSA or Renewal FAFSA (or complete the online FAFSA) by January 31 to meet the university's priority deadline of March 1.

Students can help to ensure that funds are available in time to pay semester charges by doing the following:

- meeting the March 1 application deadline
- completing admissions requirements early
- registering for classes at the earliest opportunity

Students who applied for aid last year may receive Renewal FAFSA's from the U.S. Department of Education. New aid applicants, and any continuing student who does not receive a renewal application, should obtain a FAFSA from the financial aid office of any college or university, or high school guidance office. Students can also apply for aid online at www.fafsa.ed.gov.

All students should list Towson University (code # 002099) in Step Six of the FAFSA so that the U.S. Department of Education can transmit the application results to the university's Office of Financial Aid.

VERIFICATION

Either the U.S. Department of Education or the university may select an application for verification. If selected, students must provide signed copies of federal income tax returns. They must also provide documentation to verify information such as the value of assets, household size, number in college, etc. The university encourages students to respond promptly and completely to any request for additional information. Failure to complete the verification process will result in cancellation of any financial aid offer.

IMPORTANT: Aid May Change

Federal Title IV regulations will not permit students to receive aid totaling more than the cost of education. The Office of Financial Aid may revise or cancel an aid offer if the student:

- receives additional aid at any time from another source (such as a state or private scholarship)
- provides the university with information that changes the eligibility for financial aid
- wins an appeal to change tuition status from out-of-state to in-state
- changes housing status, for example, from on-campus housing to commuting from a parent's home
- changes enrollment level, for example, from full- to part-time

TRANSFER STUDENTS

Financial aid, including most federal grants and loans, will not transfer from one institution to another. Eligibility for the Federal Pell Grant, and some state grants may transfer.

Students must apply for financial aid using the instructions stated in the "DEADLINE AND APPLICATION PROCEDURES" section. Mid-year transfer students who have already processed a FAFSA to attend a school during the fall 2000 semester must request that the U.S. Department of Education send a copy of the application results to Towson University's Office of Financial Aid. Students can contact the federal processor at 1-800-4-FEDAID.

Transfer students entering for the spring semester must request a Financial Aid Transcript from the financial aid office of the school attended during the fall semester. The Financial Aid Transcript is required whether or not the student received aid. This requirement is separate from the admission requirement for academic transcripts.

CAMPUS-BASED FINANCIAL AID

Towson University receives a limited amount of money each year for the campus-based programs. Campus-based funds go to the earliest completed applications from eligible students whose applications demonstrate the greatest need. The Office of Financial Aid processes applications in the order of EFC, starting with the

lowest EFC and continuing through the highest EFC. Students whose applications have the lowest EFCs may receive aid from the programs requiring exceptional need.

The Office of Financial Aid continues to process applications after the March 1 deadline, but late applicants cannot expect consideration for limited campus-based funds.

Federal Supplemental Educational Opportunity Grant

This federal grant is for exceptionally needy students pursuing a first bachelor's degree. Towson University may offer up to \$2,000 to an eligible applicant.

Diversity Grant

This grant promotes cultural diversity at Towson University. First bachelor's degree candidates who are U.S. citizens and have exceptional financial need may receive up to \$2,000. The university uses a variety of factors to select recipients.

Institutional Grant

Towson University may offer up to \$2,000 to first bachelor's degree candidates who have financial need.

Federal Perkins Loan

Towson University may offer Perkins Loans to first bachelor's degree candidates. The university offers loans from this program first to students with exceptional financial need. Undergraduate students may receive up to \$4,000 per year. The statutory limit is \$8,000 for a student who has not reached junior standing, and \$20,000 for all undergraduates borrowing from this program.

This federal loan has an annual interest rate of 5%, making this the lowest cost educational loan. Interest does not begin to accrue, and no payment of principal is due, until nine months after the borrower leaves school or drops below enrollment for at least 6 credit hours. Payments depend on the total amount borrowed, but will never be less than \$40 per month, plus interest.

Federal Work Study

This Federal Title IV program allows first and second bachelor's degree and graduate students to work and earn money for educational expenses. The university pays aid from this program through paychecks every two weeks. The eligibility does not offset direct university charges such as tuition.

Jobs are available on- and off-campus. The university encourages students to consider off-campus jobs in community service organizations. Towson University's Career Center maintains a list of available Federal Work-Study positions.

DIRECT FEDERAL AID

Unlike the campus-based programs, the university has no limit on the total number of eligible students who can receive aid from the direct aid programs. However, federal regulations limit the amount any student can receive from each program.

Federal Pell Grant

This federal grant is for first bachelor's degree candidates who have exceptional financial need. Pell Grants range from \$400 to \$3,125 per recipient.

Federal Direct Student Loan Program

These long-term loans are for first and second bachelor's degree students, as well as certificate and graduate students. The application requirements for these loans are the same as for other federal grant and loan programs. Borrowers must carry at least 6 credit hours per semester.

Depending on the amount of need, an aid offer may include an interest-subsidized loan or an unsubsidized loan. Some students receive both subsidized and unsubsidized loans.

The chief difference between a subsidized loan and an unsubsidized loan is the point at which interest begins to accrue. No interest accrues on a subsidized loan until the end of a six-month grace period, which begins when the borrower graduates, withdraws, or drops below enrollment for at least 6 credit hours. Interest on an unsubsidized loan accrues during enrollment, and throughout the grace period. The interest rate for Direct Loans is variable, and capped at 8.25%.

All borrowers pay interest while in repayment. The repayment period begins at the end of the grace period.

All borrowers pay a loan origination fee of 3% to the U.S. Department of Education. The university must deduct this fee from the loan proceeds.

Direct loans have annual limits: freshmen, \$2,625; sophomores, \$3,500; juniors and seniors, \$5,500. Undergraduate students who meet the Federal Title IV definition of self supporting may borrow additional unsubsidized funds of up to \$4,000 for freshman and sophomore standing and up to \$5,000 for junior and senior standing.

Aggregate loan limits are \$46,000 for undergraduate borrowing, of which no more than \$23,000 may be subsidized.

A new borrower at Towson University must complete an entrance loan counseling session, and a borrower who graduates or leaves school must complete an exit loan counseling session. Borrowers will find the entrance and exit loan counseling sessions at <http://onestop.towson.edu/finaid/>

Federal Direct Parent Loans for Undergraduate Students (PLUS)

Parents of dependent students can borrow up to the cost of education minus all other aid received. Applicants do not have to demonstrate need. However, the U.S. Department of Education approves a loan from this federal program only after an evaluation of the parent borrower's credit history.

Interest begins to accrue at the time of disbursement. The interest rate is variable and capped at 9%. All borrowers pay a loan origination fee of 4% by the U.S. Department of Education. The university must deduct this fee from the loan proceeds.

STATE SCHOLARSHIPS

The state of Maryland offers scholarships and grants based on financial need or merit, or a combination of both. Legal residents of Maryland apply using the FAFSA or the Renewal FAFSA. The deadline is March 1.

Some state scholarships, such as teaching and child care scholarships, require special applications and have different deadlines. For more information about all state scholarships, students can call the Maryland State Scholarship Administration at 410-974-5370, or visit www.mhec.state.md.us.

ADDITIONAL INFORMATION

Financial Aid Disbursements

Generally, students receive one half of financial aid funds (except Federal Work-Study) each semester. The Bursar will credit aid toward semester charges for tuition and fees and other direct university charges.

Whenever the amount of semester aid exceeds a student's charges to the university, the student has a credit balance. The student will receive any credit balance in a rebate check to use for books and day-to-day indirect educational expenses. The Bursar disburses rebate checks for credit balances no earlier than the first week of each semester. Any student who receives a late aid offer may not receive a check until at least three weeks after the creation of the credit balance. A student with a revised aid offer may also experience a delay in receiving a rebate check.

Minimester

Students will not receive Federal Title IV or university aid financial aid for Minimester.

Financial Aid Advising

Students and parents can schedule appointments to speak with Towson University financial aid advisers in person or by telephone. To schedule an appointment, call 410-830-4236.

Refund Policy

When a student completely withdraws from Towson University while receiving Federal Title IV student aid, the Office of Financial Aid must determine what portion of the student's semester aid (not including Federal Work-Study funds) will revert to the federal programs. The Office of Financial Aid must use a statutory federal refund formula provided by the U.S. Department of Education to determine what portion of aid paid to university charges has been "earned" and what portion must be considered "unearned."

The percentage of assistance earned is equal to the percentage of the semester completed as of the day the student withdraws. (If the withdrawal occurs after the 60 percent point, the percentage of aid earned is 100 percent.) The amount of aid not earned by the student is calculated by determining the complement of the percentage of assistance the student earned. That percentage is then applied to the total amount of grant and loan assistance disbursed for the semester.

If the student received more grant or loan assistance than the amount earned, the university or the student (or both) must return the unearned funds to the Federal Title IV programs.

Towson University returns the lesser of the unearned amount of Title IV assistance; or the institutional charges incurred for the semester, multiplied by the unearned percentage of Title IV grant and loan assistance. (Institutional charges are limited to tuition, fees, and room and board, if the student paid these charges to the university.)

The student returns unearned Title IV assistance minus the amount the university returns. The U.S. Department of Education does not allow discretion on the part of the university for non-institutional costs. In most cases, when a student receives Title IV assistance greater than the amount of institutional charges and completely withdraws from the university, the student will have to return some of those federal funds.

Academic Dismissal or Suspension

Academic dismissal or suspension will always result in cancellation of financial aid for future semesters. Students who receive formal re-admission to the university as degree candidates may request consideration for financial aid.

Internet Services

The Office of Financial Aid has a comprehensive interactive Web page, offering more than 200 pages of information. This Web site, <http://onestop.towson.edu/finaid>, allows students to receive many financial aid services electronically. Students can apply for financial aid and scholarships online, as well as visit dozens of recommended Web sites.

OTHER RESOURCES**Regular Student Employment**

Various departments on campus hire students. Job boards located on the first floor of the University Union contain up-to-date information on current job openings.

Student Employment Office

This office helps students find off-campus, part-time jobs in the Baltimore metropolitan area. For additional information, call or visit The Career Center at Towson University, 410-830-2730.

Private Scholarships

Various businesses, foundations and civic organizations offer scholarships. Students should check directly with groups in their local communities. www.fastWEB.com is another source for private scholarship information.

Veteran's Benefits

Veterans or eligible dependents should contact the Baltimore Regional Office of the Veterans Administration (1-800-827-1000) with questions regarding eligibility. Towson University's Veterans Office (410-830-3094) will certify applications.

Graduate Assistantships

The Graduate Office administers assistantships. For additional information, contact the Graduate Office at 410-830-4359.

Alternative Loans

Students may borrow alternative loans from private lenders outside the university. These non-federal loans can supplement other sources of student financial aid. Students and parents can find links to alternative loan lenders at <http://onestop.towson.edu/finaid>.

Towson University Scholarships

New and continuing students may qualify for scholarships based on academic performance. Students should refer to the "Scholarship" section of the *Undergraduate Catalog*, or contact the Office of Financial Aid for a brochure titled Scholarships and Awards. Students may also visit the Office of Financial Aid's Web site at <http://onestop.towson.edu/finaid>.

SCHOLARSHIP OFFICE

Enrollment Services Center, 410-830-2647

E-mail: scholarship@towson.edu

<http://onestop.towson.edu/finaid/>

Staff: Teresa Bateman, Donald Bosse, Geneau Leader, Pat Schultz, Cindy Myatt

The Scholarship Office is Towson University's central clearinghouse for information on merit-based scholarships. In addition to serving as a "first-stop" scholarship information center for students and parents, the office handles the application process for several scholarships. These scholarships are listed below in the university-wide section.

Towson University offers scholarships to students who show academic excellence or special merit. All recipients must have U.S. citizenship and maintain full-time enrollment as degree candidates, unless otherwise noted in the criteria. The Scholarship Office has created a "Scholarship Seeker" that will enable students to determine eligibility for specific Towson University scholarships. The "Scholarship Seeker" can be assessed through <http://onestop.towson.edu/finaid/>.

Scholarships awarded by the Office of Admissions are awarded only during the admissions process. No separate application is needed. Students already attending Towson University may not apply for these scholarships. Scholarships awarded through other departments may require separate applications. Contact the individual department, refer to the Scholarship Office's Web site or contact the Scholarship Office for more information.

The Scholarship Office program directors have the authority to change the deadline date, amount, and contact person for any scholarship, based on funds availability and the applicant pool. Scholarship information listed in this publication is therefore subject to change.

Private Scholarships

Recipients of scholarships from private organizations outside the university (not including Maryland state scholarships) should con-

tact the Office of the Bursar to arrange for payment. The office will disburse scholarship proceeds in accordance with procedures and policies set by the donor and Towson University. Students may defer partial payment of university charges before receipt of scholarship proceeds by forwarding a copy of the scholarship award letter to the Office of the Bursar. Any outstanding balance created when students or donors fail to provide the university with adequate, timely information becomes a financial obligation of the students'.

Army and Air Force ROTC Scholarships

For information, please refer to the description of Military Science Programs in the University Curriculum section of the catalog.

Donations

To establish a scholarship or make a donation to an existing scholarship fund, please call the Towson University Office of Development, 410-830-3375.

OFFICE OF ADMISSIONS

Admissions Merit-Based Scholarships

Towson University awards a limited number of academic scholarships each fall to qualified full-time incoming freshmen and transfer students. Priority will be granted to the earliest admission applicants. Applications will be considered after the December 1 deadline so long as scholarships remain available. Each academic scholarship can be applied only toward educational expenses at the university.

The Commonwealth Award

Amount: Annual tuition and mandatory university fees.

Application Deadline: December 1 for receipt of application, transcripts and SAT I results.

Criteria: Must apply as a full-time applicant directly from a Baltimore City Public School and have designation as a Commonwealth or Commonwealth Plus Student with minimum 3.00 cumulative GPA. Primary consideration given to students with highest academic background and earliest application.

Contact: Louise Shulack, 410-830-2113 or 1-888-4TOWSON (toll-free); admissions@towson.edu

Helen Aletta Linthicum Scholarship

Amount: \$1,000

Application Deadline: December 1 for receipt of application, transcripts and SAT I results.

Criteria: Awarded to select valedictorians from Maryland's high schools by the Office of Admissions based on academic credentials and class rank. Recipients must enroll full-time. Funds can only be applied against freshman year education expenses. Non-renewable. Presidential, University and Provost scholars are excluded from consideration.

Contact: Office of Admissions, 410-830-2113; 1-888-4TOWSON (toll-free); admissions@towson.edu

Cultural Diversity Award

Amount: Awards vary up to full tuition and mandatory university fees.

Application Deadline: December 1 for receipt of application, transcripts and SAT I results.

Criteria: Full-time degree seeking candidate; U.S. citizen or permanent resident showing academic achievement, leadership potential, and demonstrated participation in and commitment to school and community cultural diversity. Freshman: Minimum 3.00 cumulative academic GPA and 1100+ combined SAT I; primary consideration given to applicants with highest credentials and earliest application. Transfer: Minimum 3.00 cumulative aca-

ademic GPA and direct transfer from a Maryland community college with 56 minimum transferable credits.

Contact: Louise Shulack, 410-830-2113 or 1-888-4TOWSON (toll-free); admissions@towson.edu

Towson Scholar

Amount: Annual tuition and mandatory university fees, room and board* (see below).

Application Deadline: December 1 for receipt of application, transcripts and SAT I results.

Criteria: Awarded on basis of SAT I scores and high school average to entering freshmen, full-time degree candidates. Strongest consideration given to those with minimum cumulative 3.50 academic GPA and 1470+ SAT I scores. Awarded for four years only if student maintains 3.25 cumulative QPA each semester and continues full-time status at the university. Recipients will be asked to render special services to the university community. Awards based on admission material.

Contact: Louise Shulack, 410-830-2113 or 1-888-4TOWSON (toll-free); admissions@towson.edu

Presidential Scholarship

Amount: Amount varies, up to annual tuition and mandatory university fees; limited number offered on a competitive basis.

Application Deadline: December 1 for receipt of application, transcripts and SAT I results.

Criteria: Early application encouraged. Awards made beginning October 1 to entering freshman, full-time degree candidates having 3.50+ GPA and 1360+ combined SAT I. Entering transfer students, and direct transfers must be full-time applicants from a community college and have 3.50 cumulative GPA. Awarded for four years (two for transfers) if student maintains full-time status at the university and 3.25 cumulative QPA each semester. Recipients asked to render special services to the university community.

Contact: Louise Shulack, 410-830-2113 or 1-888-4TOWSON (toll-free); admissions@towson.edu

Honors College Grant

Amount: \$1,000

Criteria: Awarded on a competitive basis only to entering students who have been granted admission to TU and invited to apply to the Honor's College. Purpose of offer is to encourage admitted student to enroll at TU. Applicable only to first year (not renewable).

Contact: Honors College, 410-830-4677

Honors College Scholarship

Amount: Amount varies up to \$3,000.

Application Deadline: December 1 for receipt of application, transcripts and SAT I results. Scholarship application around March 1, check with Honor's College for specific date.

Criteria: Awarded on a competitive basis to students invited to apply to the Honor's College; a supplemental award for entering full-time, first year students receiving other scholarships chosen by the Honors College Selection Committee. Awarded for up to four years (two years for transfer students) if student remains in good standing with the Honors College.

Contact: Honors College, 410-830-4677

Mary E. Cromwell Scholarship

Amount: Annual tuition and mandatory university fees, on-campus room and board*; other smaller awards possible as funds permit.

Application Deadline: December 1 for receipt of application, transcripts and SAT I results.

Criteria: Awarded to Maryland resident entering as a full-time freshman on the basis of SAT I scores and high school average. Strongest consideration given to those with 3.5+GPA, 1270+SAT I.

Awarded for four years with a 3.25 cumulative average each semester.

Contact: Louise Shulack, 410-830-2113 or 1-888-4TOWSON (toll-free); admissions@towson.edu

Elizabeth Cannon Memorial Scholarship

Amount: Annual tuition and mandatory university fees, on-campus room and board* .

Application Deadline: December 1 for receipt of application, transcripts and SAT I results.

Criteria: Awarded to entering freshman full-time applicant who is Maryland resident. Awarded on basis of SAT I scores and high school average. Strongest consideration given to those with 3.50+ GPA, 1270+ SAT I. Awarded for four years with a 3.25 cumulative average each semester.

Contact: Louise Shulack, 410-830-2113; 1-888-4TOWSON (toll-free); admissions@towson.edu

University Scholarship

Amount: Amount varies up to annual tuition for Maryland residents; out-of-state students may qualify for \$3,500.

Application Deadline: December 1 for receipt of application, transcripts and SAT I results.

Criteria: Limited number offered on a competitive basis to full-time applicants only. Awarded on basis of 3.50+ GPA, a score of at least 1270 on the SAT I, or top 10 percent of TU's entering freshman class; or demonstrated ability in the visual or performing arts; or who have academic leadership qualities. Entering transfers must have a minimum cumulative 3.50 GPA and 56 transfer credits from a community college.

Contact: Louise Shulack, 410-830-2113 or 1-888-4TOWSON (toll-free)

Provost's Scholarship

Amount: Award varies from \$1,000 to \$8,000.

Application Deadline: December 1 for receipt of application, transcripts and SAT I results.

Criteria: Entering freshman, full-time applicant with high GPA and SAT I scores. Students specifically recruited to assist the university in meeting goals of talent, leadership, academic potential, citizenship or diversity. Recipients are not eligible for the Helen Alerta Linthicum Scholarship.

Contact: Louise Shulack, 410-830-2113 or 1-888-4TOWSON (toll-free); admissions@towson.edu

*Excludes Towson Run, the Burkshire and off-campus housing

For information concerning criteria and contact person, please view our Web site, www.onestop.towson.edu/finaid, or call the Scholarship Office at 410-830-2647 for more details.

OFFICE OF ALUMNI RELATIONS

Alumni Distinguished Scholar Endowment *

Application Deadline: August 31

Outstanding Man and Woman Awards *

Application Deadline: Varies

The Ronald L. Peterson Freshman Scholarship *

Application Deadline: August 31

DEPARTMENT OF ATHLETICS

TU Athletic Scholarship

Rich Bartos Memorial Scholarship Endowment *

Wayne Breeden Scholarship Endowment *

B. Melvin Cole Scholarship Endowment *

Joseph McMullen Memorial Scholarship Endowment *

Rachuba Enterprises Scholarship Endowment *

Carroll Stephen and George Thomas Rankin Scholarship Endowment *

STUDY ABROAD OFFICE

National Security Education Program

College of Liberal Arts

International Student Exchange Scholarship

Application Deadline: April 15

Institutional Study Abroad Scholarship

Application Deadline: April 1 for fall semester and academic year, November 1 for spring semester and summer session

COLLEGE OF BUSINESS AND ECONOMICS

Bell Atlantic, MD-Inc. Scholarship

Application Deadline: September 15

CBE Dean's Scholarship

Application Deadline: May 1

Mary Fyffe Chiswell, Class of 1922 Scholarship Endowment *

Application Deadline: March 31

Towsontowne Business and Professional Women's Club Scholarship Endowment *

Application Deadline: May 9

Department of Accounting

Sylvia Bernstein Prize for Excellence in Accounting *

Application Deadline: None

Department of Economics

Jeremiah J. German Scholarship in Economics *

Application Deadline: April 1

Wall Street Journal Student Achievement Award

Application Deadline: None

Department of Finance

The Baltimore Security Analysts Society Scholarship Award *

Application Deadline: October 1

Baltimore Security Traders Association Scholarship *

Application Deadline: October 1

Department of Marketing and Management

James L. Dunbar, Jr. Memorial Scholarship Endowment *

Application Deadline: None

COLLEGE OF EDUCATION

Mary Fyffe Chiswell, Class of 1922 Scholarship Endowment *

Application Deadline: March 15

Ann Reilly Fund *

Application Deadline: March 3

Jack Delaney Scholarship *

Application Deadline: March 3

Rosalie Krostar Paulson Scholarship Fund

Application Deadline: March 3

Teacher Candidates in Urban Schools *

Application Deadline: May 1

Department of Early Childhood Education
Class of 1931 Eunice K. Crabtree Scholarship Endowment *
 Application Deadline: March 3

Alice B. Gibson Scholarship *
 Application Deadline: March 3
Brian Reuling Fund *
 Application Deadline: March 1

The Irene M. Steele Most Promising Teacher Award

Department of Elementary Education
Class of 1931 Eunice K. Crabtree Scholarship Endowment *
 Application Deadline: March 3

Alice B. Gibson Scholarship
 Application Deadline: March 3

The Christa R. Jeunette Memorial Scholarship Endowment *
 Application Deadline: May 30 of current year

Minnie V. Medwedeff Endowment Scholarship
 Application Deadline: March 3
The Irene M. Steele Most Promising Teacher Award

Department of Secondary Education
Class of 1931 Eunice K. Crabtree Scholarship Endowment *
 Application Deadline: March 3

COLLEGE OF FINE ARTS AND COMMUNICATION
Alexander E. Sidorowicz Memorial Scholarship *

Mary Fyffe Chiswell, Class of 1922 Scholarship Endowment *
 Application Deadline: March 15

Jack Tolbert Memorial Scholarship *
 Application Deadline: March 15

Department of Art
Cooley Art Scholarship Endowment *
 Application Deadline: March 15

Art Department Scholarship Endowment *
 Application Deadline: Varies

Department of Dance
Dance Scholarship
 Application Deadline: Before April each year

Department of Music
Cello Scholarship *

C. May Diekmann Music Scholarship Endowment *
 Application Deadline: March 1

The Department of Music Scholarship Endowment *

The Peggy Friedmann Gordon Music Competition *
 Application Deadline: Early fall

The John H. Kelbaugh Scholarship *
 Application Deadline: March 15

Livingston-Coulange Scholarship *
 Application Deadline: April 1

Marching Band Scholarship
 Application Deadline: Application and audition required

Department of Music Scholarships
 Application Deadline: June 1

Music Scholarship for Music Preparatory Students *
 Application Deadline: June 1

Henry Sanborn Music Scholarship Endowment *
 Application Deadline: Early spring semester

Talent Awards
 Application Deadline: March 1

Towson University Bassoon and Oboe Scholarship

University Scholarship, Music

C. James Velie Memorial Scholarship
 Application Deadline: April 15

Department of Mass Communication and Communication Studies
The Eddie Ballard Award for Journalism

Forensics Scholarship Fund *

The Patrick John O'Connell Memorial Fund *
 Application Deadline: Check department for deadline

Thomas H. O'Connor, II Broadcasting Scholarship Endowment *
 Application Deadline: Check department for deadline

Public Relations Society of America Scholarship

George F. Rogers, Jr. Scholarship Endowment *
 Application Deadline: March (exact dates vary; check with department)

Department of Theatre Arts
Charles S. Dutton Theatre Scholarship Endowment

C. Richard Gillespie Scholarship Endowment *

The John Glover Scholarship Endowment for Acting Majors *
 Application Deadline: April 15

The Walter F. Kramme Scholarship Endowment *
 Application Deadline: March 15

The Theatre Department Scholarship Endowment *
 Application Deadline: March 15

COLLEGE OF HEALTH PROFESSIONS

Department of Nursing
The Rowanneta Sarah Allen Class of 1923 Scholarship Endowment *
 Application Deadline: Awarded spring semester for fall

The Rena and Dewey Farbman Memorial Scholarship *
 Application Deadline: Spring semester for fall

The Dr. Walter M. Hammett Memorial Scholarship *

Department of Occupational Therapy
Henrietta Price Scholarship
 Application Deadline: January 15

Warren Internship Award Endowment *
 Application Deadline: October 25, to be applied to spring tuition

Department of Kinesiology
The Jean S. Baumbach Scholarship Endowment *
 Application Deadline: April 15

Jennifer L. Thomas Memorial Fund *
 Application Deadline: April 15

COLLEGE OF LIBERAL ARTS

Department of English
Dowling Award Fund *

Department of Political Science
The Smart A. Ekpo Scholarship Endowment *
 Application Deadline: March 20

Department of History
Cecilius Calvert Chapter of Daughters of the American Colonists
 Application Deadline: No application

Disabled American Veterans Prize in History *
 Application Deadline: No application
Mary Catherine Kahl History Prize

Law and American Civilization Program
Maryland Law Enforcement Officers Scholarship
 Application Deadline: March 1

Department of Modern Languages
Dr. Joseph Vidal-Llecha Memorial Scholarship *
 Application Deadline: May 1 for fall; November 15 for spring

Department of Sociology, Anthropology and Criminal Justice
Irwin Goldberg Endowment for Sociology *

The Mignon Lieberman Sociology Award Fund *

Interdisciplinary Program in Women's Studies
The Frank W. Guess Scholarship *

COLLEGE OF GRADUATE EDUCATION AND RESEARCH

Fulbright Scholarship for Graduate Study Abroad

Graduate Music Scholarship

COLLEGE OF SCIENCE AND MATHEMATICS

Department of Biological Sciences
Biology Alumni Scholarship
 Application Deadline: End of spring semester

The James Edward Ewig Memorial Scholarship Endowment *
 Application Deadline: End of spring semester

The James Moniodis Scholarship Endowment
 Application Deadline: End of spring semester

Lois D. Odell Biology Scholarship Endowment *
 Application Deadline: End of spring semester

Department of Chemistry
The Gibbs Award for Excellence in Chemistry *
 Application Deadline: None

The Sons of Norway Foundation: Nancy Lorraine Jensen Memorial Scholarship
 Application Deadline: Applications must be postmarked no later than March 1

Floyd Blankenship Memorial Award *

Student Affiliates of the American Chemical Society Scholarship *
 Application Deadline: April for fall; November for spring

Department of Computer and Information Sciences
The Computer Science Scholarship Award Fund *
 Application Deadline: Application required

Upsilon Pi Epsilon (UPE) Award for Excellence in Computer Science
 Application Deadline: March 1

Mary Hudson Scarborough Award in Computer Science

Diehl Graphsoft Scholarship Fund *

Department of Mathematics
Joyce C. Neubert Scholarship *
 Application Deadline: March 1

The Jess Fisher (Class of 1934) Pre-Engineering Scholarship *
 Application Deadline: Varies

UNIVERSITY-WIDE SCHOLARSHIPS

CEEP Scholarship (Community Enrichment and Enhancement Partnership)
 Application Deadline: April 15 for continuing students; July 15 for incoming students

The Darryl M. Dixon, III Memorial Scholarship *

The Margaret Duke Chambers Scholarship Endowment
 Application Deadline: November 15

The Associated Italian American Charities of Maryland, Inc. Memorial Scholarship
 Application Deadline: March 15

Towson University Foundation Scholarship Award Endowment *
 Application Deadline: October 15

Disabled Students Scholarships
 Application Deadline: April 15

Loats Scholarship Fund *
 Application Deadline: May 1

Diane Peacock Jezic Memorial Scholarship Endowment
 Application Deadline: March 15

Honors College Scholarship
 Application Deadline: Around February 1 (check with Honors College for specific date)

Loch Raven Kiwanis Foundation
 Application Deadline: March 15

The Lutheran Campus Ministry (The Lois D. Odell Student Scholarship Fund)
 Application Deadline: Mid-September and mid-May

John J. Leidy Foundation Scholarship
 Application Deadline: October 15

Charlotte W. Newcombe Foundation Scholarship
 Application Deadline: April 15

Northeast Association of Student Employment Administrators Award
 Application Deadline: February 1

Orrielle Murphy Award

*The Marthe Quinotte Scholarship Endowment **
Application Deadline: October 15

*Towson University Women's Forum Scholarship Fund **
Application Deadline: November 1 for spring semester

James Linder Scholarship

The Jess Fisher (Class of '34) College of Science and Mathematics Scholarship II

Cooley Literature Prize Endowment

Theodore R. and Norma M. Snyder Endowment

Class of '23 Endowment Fund

The Mary Etzler Ware Scholarship Endowment

The Hoke L. Smith Scholarship Endowment

Alumni Memorial Scholarship Endowment

Psychology Research Endowment

The Audna E. Thompson Scholarship Endowment

The McConnell-Brungardt Scholarship Fund

James R. Saxon Memorial Scholarship Endowment

Catherine Britt Memorial Scholarship Endowment

The Marie Faraino Beigun (Class of '41) and Paul Beigun Scholarship Endowment

Rosaria Serio and Giovanni Faraino Scholarship Endowment

Biology Scholarship Endowment

Laura Lamb Memorial Scholarship Fund

Evelyn Pearl Reed Scholarship Endowment

Barnes-Harris Scholarship Endowment

The Dr. Donald J. Minnegan Scholarship Endowment

The Ronald and Linda Raspet Scholarship Endowment

The Anderson/Parente Scholarship Endowment

The Georgetta Schenkel Scholarship in Elementary Education

The Dr. Frank J. Sanders Study Abroad Scholarship

The Beulah M. Price Scholarship — College of Education

The Beulah M. Price Scholarship — College of Fine Arts and Communication

The Beulah M. Price Scholarship — College of Liberal Arts

The Steven and Laura Murfin Scholarship Fund

The Earle Taylor and Juanita Greer Hawkins Fund

The Joseph and Helen Jochum Memorial Fund

The Dr. Edna May Merson Scholarship Endowment

The Ian Moore Philosophy Fund

The Willie Howard Buckingham Scholarship Fund

The Sidney Lieberman Music Competition

*** The funds for these awards are administered by the Towson University Foundation, Inc.**

For detailed information on all the scholarships listed, please visit our Web site at <http://onestop.towson.edu/finaid/>. If you have any questions, please call the Scholarship Office at 410-830-2647 or e-mail us at scholarship@towson.edu.







The College of Business and Economics

The College of Business and Economics (CBE)

VISION

CBE's vision is to be widely recognized as a Premier Undergraduate College of Applied Business Studies.

MISSION

CBE's mission is to provide:

- *a strong undergraduate business education to students of achievement... supplemented with select graduate programs based upon specific strengths or needs*
- *a good balance of theory, application and personal development activities that create a challenging environment of integrated learning...*
- *each student with the opportunity to meet the required "Profile of a Graduate" through a strong faculty that consistently demonstrates quality teaching, advising and important scholarly contributions in their fields of expertise*
- *a nurturing culture of continuously higher expectations that properly prepares each student for life beyond college*
- *a strong outreach program that creates dynamic partnerships beyond the university to promote economic and societal development, academic linkages that enhance the teaching/learning environment throughout our college, and CBE's important inclusion in the business and civic community*

Accounting
Business Administration
E-Commerce
Economics
Finance
Human Resource Management
International Business
Legal Studies
Management
Marketing

Alan Leberknight, Dean
M. Tom Basuray, Associate Dean
Albert Avery, Assistant Dean
A. Samuel Penn, Executive-in-Residence
David A. DeCenzo, Director, Partnership Development
The Entire CBE Faculty and Staff

COLLEGE OFFICE
Executive Administrative Aide: Phyllis Belt
Administrative Assistant: Carol Lindsay
Stephens Hall 218, 410-830-3343
Fax: 410-830-3664
E-mail: pbelt@towson.edu
www.towson.edu/cbe

PROFILE OF A COLLEGE OF BUSINESS AND ECONOMICS GRADUATE

The College of Business and Economics (CBE) understands the need for its graduates to be broad-based and ready to perform immediately upon entering the job market, both as individuals and in teams. Therefore, its curriculum contains concrete, measurable and attainable objectives throughout. As a result, *each* CBE graduate is expected to perform successfully, as both an individual and a team member, in the following areas of Knowledge, Skills and Attitudes (KSAs):

1. COMMUNICATION — WRITTEN, SPOKEN, GRAPHIC AND ELECTRONIC

- Write articulate, persuasive and influential business reports, proposals and letters
- Make articulate, persuasive and influential individual and team presentations
- Develop graphic, spreadsheet and financial analysis support for positions taken
- Display presentation skills
- Generate appropriate visual aids
- Use correct written structure, spelling, grammar and organization
- Articulate another's viewpoint through verbal and nonverbal interpretation
- Resolve interpersonal and team conflicts
- Negotiate effectively

2. THINKING — CRITICAL, CREATIVE AND INTEGRATED

- Use problem-solving techniques
- Use adaptable, flexible thinking
- Use critical thinking to produce comprehensive, supported, integrated conclusions
- Use creative thinking methods to produce ideas
- Distinguish (1) fact from opinion and (2) critical from noncritical information
- Develop several workable solutions to a problem
- Show common sense
- Demonstrate continuous learning (learning to learn)

3. TECHNOLOGY

- Use software for writing, spreadsheets, databases, presentations and decision support
- Demonstrate self-taught use of a second software package
- Use e-mail, World Wide Web, Internet and other contemporary electronic services

4. ETHICS AND VALUES

- Consistently accept responsibility for one's own actions
- Display ethical conduct and honor-system behavior
- Apply ethics in reaching business recommendations
- Promote benefits of good ethical behavior while recognizing practical ethical challenges
- Display a "win-win" attitude

5. ACCREDITED BUSINESS CONTENT

- Know, apply and integrate the content in one's major
- Apply and integrate accumulated cross-discipline concepts
- Value the relevance of each business discipline in today's business world

6. DIVERSITY — INTERNATIONAL AND DEMOGRAPHIC

- Apply international concepts and contemporary issues to business situations
- Apply domestic diversity concepts and contemporary issues to business situations
- Show sensitivity to others' views, values and business customs
- Discuss relevant global business developments
- Interact as a business professional with people of other cultures and sub-cultures

7. PRACTICAL EXCELLENCE

- Demonstrate effective team skills
- Display professional business behavior and appearance
- Network with professionals
- Manage time and tasks
- Use estimates, analogies and examples
- Demonstrate development of one's self-esteem and "can do" attitude

8. LEADERSHIP, ENTREPRENEURSHIP AND COMMUNITY SERVICE

- Demonstrate group leadership
- Describe one's own risk-taking profile
- Differentiate between a leader, a manager and an entrepreneur
- Perform community service
- Foster leadership potential in self and others

9. JOB EXPERIENCE AND CAREER DEVELOPMENT

- Show evidence of a quality, mentored, reflective professional experience
- Organize a persuasive, informative resume
- Create a portfolio that displays evidence of employability
- Demonstrate effective job search and interview skills
- Assume responsibility for one's own career goal-setting and lifelong learning

College of Business and Economics

Towson University is the only Maryland state university with both its Business and Accounting programs accredited by AACSB: The International Association for Management Education.

PROGRAMS AVAILABLE

Major in Accounting

Major in Business Administration

CBE Individualized-Legal Studies Track

E-Commerce Track

Economics Track

Finance Concentration

Human Resource Management Track

International Business Track

Management Concentration

Marketing Concentration

Double Major in Business Administration and Computer

Information Systems

Major in Economics

Double Major in Economics and Geography

Double Major in Economics and Mathematics

Double Major in Economics and Political Science

Minor in Business Administration

Minor in Economics

REQUIRED 60 CREDITS IN NON-CBE COURSES

The College of Business and Economics is accredited by AACSB, the national organization which accredits business colleges. AACSB standards require CBE students to take 50 percent of the required 120 program credits (i.e., 60 credits) outside the College of Business and Economics.

NOTE: Up to 9 credits in Economics may be counted as "outside CBE."

TRANSFER CREDIT POLICIES

In order to graduate from Towson University with a major from the CBE, students must complete at least 50 percent of the credit hours required in their major at Towson University.

Lower-Level Courses: Students planning to transfer into the Business Administration or Accounting majors at Towson University are encouraged to take the lower-level prerequisite courses: Principles of Accounting I and II, Microeconomics and Macroeconomics, Statistics, Legal Environment of Business, and Computer Science (COSC 111 equivalent). Students transferring from a Maryland community college should inquire at that institution's transfer office regarding the Recommended Transfer Program (RTP) for the Business Administration or Accounting major at TU. Students may also contact TU's CBE Student Center (410-830-3496) to verify transfer courses.

After transferring to Towson University, students are encouraged to take such courses as finance, marketing and management because these are upper-division courses at the university. Courses completed at a community college or a four-

year college that are offered at TU as upper-level courses must be validated in order to be recognized as meeting upper-level requirements. Validation generally requires that another specified course in the same discipline be completed with a grade equivalent of 2.00 or higher at TU.

Upper-Level Courses: A four-year college's transferred course that possesses "level and content equivalency" of a TU course may be used to satisfy a core/elective requirement with the approval of the major department. Only one transferred course will be accepted in fulfillment of a concentration requirement. A student intending to transfer a course must provide a course description from the other college's catalog. Contact the specific office (Accounting, Business Administration — CBE Student Center, or Economics) for policy and procedures regarding transfer of credits for upper-level accounting, business, and/or economics courses.

NOTE: Courses taken at a community college or other two-year school cannot transfer as upper-level credits.

DISTINCTIVE FEATURES

- Regional Economic Studies Institute (R.E.S.I.)
- Central Maryland Small Business Development Center (SBDC) Network
- Center for Organizational Performance
- Towson University Sales Institute
- College of Business and Economics Advisory Board
- Student Chapter of Beta Gamma Sigma National Honor Society
- Students In Free Enterprise (S.I.F.E.)

CBE STUDENT CENTER

Stephens Hall 112, 410-830-3496

Fax: 410-830-2300

E-mail: lsawyer@towson.edu

<http://www.towson.edu/cbe/student/>

Director: Louise Laurence

Associate Director: Patricia Atkinson

Adviser: Joan Harrison

Administrative Assistant: Linda Sawyer

The College of Business and Economics (CBE) Student Center was developed to encourage students to think "career" from the moment they declare a major in the CBE. The center enhances the CBE student's educational experience through coordination and support of advising activities, mentoring, quality internships, and part-time and full-time employment opportunities. In the center, we offer programs such as the Dean's Brown Bag Lunch, talks on career opportunities with area professionals, workshops on how to prepare for an interview, and what to include in your resume. Our annual CBE Career Fair offers our majors a chance to network with recruiters to learn about internship, part-time, and full-time opportunities.

Invest in Yourself at CBE

Department of Accounting

Professors: Lamont Steedle (*Chair*), Martin Freedman, Charles Martin, Donald Rosenberg, Barbara Stewart
Associate Professors: Raymond Castaldi, Seth Hammer, Norma Holter, Man C. Maloo, Benjamin Neil, Andrew Schiff, Michael Seganish,
Assistant Professors: Barry Buchoff, Kang Cheng
Senior Lecturers: Jayne Maas, Mike Lavine
Part-Time Faculty: Alan Alper, Teresa Beck, Michael Broache, James Burns, Timothy Childress, Lynn Goldberg, Albert Hannan, Quincey Johnson, Dennis Kreiner, Brian Lazurus, Frank Meyer, Patrick Motsay, Morris Saks, William Tignanelli, Larry Wilson, Richard Winelander
Administrative Assistants: Ann Hunt, Paulette Pearson

OFFICE

Stephens Hall 102, 410-830-2227

Fax: 410-830-3641

E-mail: ahunt@towson.edu

<http://www.towson.edu/cbe/departments/accounting/>

WHY STUDY ACCOUNTING?

- To prepare for college-graduate, entry-level jobs such as cost accountant, staff accountant and tax preparer
- To prepare for a Master of Accountancy graduate program and the CPA Exam in order to hold jobs such as auditor, tax adviser, system analyst, business and personal accountant, and business and personal financial adviser. (Note: The state of Maryland requires 30 credits beyond the B.S. to qualify to sit for the CPA exam, beginning in July 1999. Students who are not Maryland residents should check their own state's requirements.)

MISSION STATEMENT

The Department of Accounting:

- provides a high-quality accounting education built upon a sound business education and a comprehensive foundation in the liberal arts and sciences that prepares students for positions of responsibility and leadership in accounting, business and society
- creates student and faculty learning experiences through a combination of scholarly activities and partnerships with the accounting profession and business community
- is innovative and market-driven in carrying out the mission while maintaining the highest academic standards

DISTINCTIVE FEATURES

- Student Chapter of Beta Alpha Psi
- Accounting Advisory Board (of business professionals)
- Annual Accounting Open House
- Annual Department of Accounting Awards Banquet
- Student Scholarships and Awards:
 - Dean's Scholarships
 - CPA Review Scholarships
 - Deloitte and Touche Achievement Award
 - MACPA Outstanding Achievement in Accounting Award
 - American Society of Women Accountants Certificate of Achievement
 - Baltimore Association for Financial Planning Scholastic Achievement Award
 - Financial Executives Institute Academic Honors
 - Sylvia Bernstein Prize for Excellence in Accounting
 - Russell E. Denison Annual Award for Excellence in Accounting
 - Outstanding Accounting Student Achievement Award

ACCOUNTING PROGRAM

The undergraduate Accounting major is a 120 credit hour program. The program provides the necessary transition to a Master of Accountancy graduate program. It is also designed for students who wish to prepare for the CPA examination and enter the public accounting profession by completing an additional 30 credits of undergraduate elective courses, or by completing the requirements for a second major or minor.

The lower-level prerequisites, upper-level business core and upper-level accounting core courses required of all Accounting majors are set forth below. Accounting majors must complete 60 credits outside the College of Business and Economics. Up to 9 credits in Economics may be counted as *outside CBE*.

All major course requirements must be completed with a grade equivalent of 2.00 or higher. Majors must score in the 50th percentile or above on the ATAG (Achievement Test for Accounting Graduates) in order to graduate.

Requirements for the Major

Application Procedure for Continuation in the Accounting Major: After completing 9 credits of Accounting courses and successfully passing the APAT exam, students complete the Accounting Application, available in the department office, Stephens Hall, room 102. The requirements are:

- APAT (Accounting Program Admissions Test) score: 70th percentile or above
- Quality Point Average (QPA) 2.50 or higher in all courses completed when applying
- Quality Point Average (QPA) 2.50 or higher in all Accounting courses completed when applying
- Completion of
 - 1) ECON 205 or MATH 231 (Statistics) with a grade equivalent of 2.00 or higher
 - 2) an ANTH or PSYC or SOCI course
 - 3) a POSC course

Lower-Level Prerequisite Courses (27 credits)

ACCT 201	Accounting Principles I (or Honors ACCT 211) (3)
ACCT 202	Accounting Principles II (or Honors ACCT 212) (3)
LEGL 225	Legal Environment of Business (3)
LEGL 226	Business Law (3)
COMM 131	Fundamentals of Speech Communication (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomic Principles (or Honors ECON 203) (3)
ECON 202	Macroeconomic Principles (or Honors ECON 204) (3)
ECON 205	Statistics for Business and Economics (3)
	or
MATH 231	Statistics (3)

Other General Education Requirements (9 credits)

One ANTH or PSYC or SOCI course (3)
 One POSC course (3)
 PHIL 371 Business Ethics (3)

Upper-Level Business Core Requirements (21 credits)

CBEC 301	Business Cornerstone (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 361	Management and Organization Theory (3)
MNGT 363	Decision Sciences (3)
MNGT 481	Business Strategy and Policy (3)
<i>One of the following courses:</i>	
ECON 305	Survey of International Economics (3)
	or
FIN 435	International Finance (3)
	or
MKTG 445	International Marketing (3)
	or
MNGT 355	International Business (3)

Upper-Level Accounting Courses (27 credits)

ACCT 301	Intermediate Accounting I (3)
ACCT 302	Intermediate Accounting II (3)
ACCT 303	Intermediate Accounting III (3)
ACCT 321	Advanced Accounting I (3)
ACCT 341	Cost Accounting I (3)
ACCT 361	Tax Accounting I (3)
ACCT 401	Auditing I (3)
ACCT 410	Accounting Control Systems (3)
<i>One Accounting elective selected from:</i>	
ACCT 322	Advanced Accounting II (3)
ACCT 342	Cost Accounting II (3)
ACCT 362	Tax Accounting II (3)
ACCT 402	Auditing II (3)

Suggested but not required: If you do not have accounting or business experience, consider adding ACCT 497 Accounting Internship or CBEC 460 Professional Experience. These credits may be counted toward the 150-hour CPA requirement.

SUGGESTED COURSE SEQUENCE FOR ACCOUNTING MAJORS

Before advancing into upper-division courses, students need to complete specific prerequisite courses with a minimum grade equivalent of 2.00 or higher. See your adviser for information. Students must also have earned a minimum cumulative QPA of 2.50, a minimum QPA of 2.50 in Accounting, and scored at least 70 percent on the APAT Test.

While completing the freshman and sophomore sequences, students also need to complete one Political Science course, usually taken as either GenEd II.B.2 or GenEd II.D, and one Anthropology, Psychology or Sociology course, usually taken as GenEd II.B.2 or GenEd II.D. After completing these sequences, students will still need to fulfill GenEd I.D., II.A.2, II.C.1 and II.C.3 in the junior or senior year. Students should consult with their adviser to make the most appropriate elective choices.

Based on course availability and student needs and preferences, the selected sequences will probably vary from those presented at right.

FRESHMAN YEAR**First Semester (15 credits)**

ACCT 201	Accounting Principles I (ACCT 211 Honors) (3)
GenEd II.C.2	ECON 201 Microeconomic Principles (ECON 203 Honors) (3)
GenEd I.A.	
GenEd I.B.	COSC 111 Information and Technology for Business (3)
GenEd I.C	MATH 111 Algebra for Applications (prerequisite for ECON 205/MATH 231) (3)
	or
	MATH 231 Basic Statistics I (3)
	or
	ECON 205 Statistics for Business and Economics (3)

Second Semester (15 credits)

ACCT 202	Accounting Principles II (ACCT 212 Honors) (3)
ECON 202	Macroeconomic Principles (ECON 204 Honors) (3)
GenEd II.B.2	POSC or ANTH, PSYC or SOCI
GenEd II.D.	POSC or ANTH, PSYC or SOCI
Statistics	ECON 205 Statistics for Business and Economics (3)
	or
	MATH 231 Basic Statistics I (3)
	or
	LEGL 225 Legal Environment of Business (3)

SOPHOMORE YEAR**First Semester (16 credits)**

ACCT 301	Intermediate Accounting I (3)
GenEd II.A.1	Lab (4)
GenEd II.B.3	COMM 131 Fundamentals of Speech Communications (3)
LEGL 225	Legal Environment of Business (3)
	or
LEGL 226	Business Law (3)
GenEd I.E.	

Second Semester (15 credits)

ACCT 302	Intermediate Accounting II (3)
ACCT 341	Cost Accounting (3)
MNGT 363	Decision Sciences (3)
GenEd II.A.1	
GenEd I.D.	ENGL 317 recommended (3)

JUNIOR YEAR**First Semester (15 credits)**

ACCT 303	Intermediate Accounting (3)
CBEC 301	Business Cornerstone (3)
GenEd II.C.1	
FIN 331	Principles of Financial Management (3)
MNGT 361	Management and Organization Theory (3)

Second Semester (15 credits)

ACCT 321	Advanced Accounting (3)
ACCT 361	Tax Accounting (3)
MKTG 341	Principles of Marketing (3)
GenEd II.B.1	
Elective (3)	

SENIOR YEAR**First Semester (14 credits)**

ACCT 401	Auditing (3)
ACCT 410	Accounting Control Systems (3)
PHIL 371	Business Ethics (3)
Elective (2)	
International Requirement:	
ECON 305	Survey of International Economics (3)
	or
FIN 435	International Finance (3)
	or
MKTG 445	International Marketing (3)
	or
MNGT 355	International Business (3)

Second Semester (15 credits)

ACCTxxx	Accounting Elective (3)
ACCT 497	Accounting Internship (3)
	or
CBEC 460	Professional Experience (3)
MNGT 481	Business Strategy and Policy (3)
GenEd II.A.2	
GenEd II.C.3	

Business Administration Program

OFFICE

CBE Student Center
 Stephens Hall 112, 410-830-3496
 Fax: 410-830-2300
 E-mail: lsawyer@towson.edu
<http://www.towson.edu/cbe/Programs/buad-major.html>

PROGRAMS AVAILABLE

• Major in Business Administration with concentrations or tracks in:

- E-Commerce
- Economics
- Finance
- Human Resource Management
- International Business
- Management
- Marketing
- CBE Individualized-Legal Studies

- Double Major in Business Administration and Computer Information Systems
- B.A. Degree Option
- Minor in Business Administration

MAJOR IN BUSINESS ADMINISTRATION

The major in Business Administration requires 21 credits in lower-level prerequisite courses, 36 credits of upper-level core requirements, and 15 credits in one of the following concentrations or tracks: E-Commerce, Economics, Finance, Human Resource Management, International Business, Management, Marketing, or CBE Individualized — Legal Studies. (Requirements for the Legal Studies Track are listed below. Requirements for the other concentrations and tracks are listed in their separate departments in the College of Business and Economics.) All major requirements must be completed with a grade equivalent of 2.00 or higher. See the Suggested Course Sequence for Business Administration Majors.

Lower-Level Prerequisite Courses (21 credits)

ACCT 201	Accounting Principles I (or Honors ACCT 211) (3)
ACCT 202	Accounting Principles II (or Honors ACCT 212) (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomic Principles (or Honors ECON 203) (3)
ECON 202	Macroeconomic Principles (or Honors ECON 204) (3)
ECON 205	Statistics for Business and Economics (3)
	or
MATH 231	Statistics (3)
LEGL 225	Legal Environment of Business (3)

Requirements for Continuation in the Business Administration Major

Students majoring in Business Administration must successfully pass CBEC 301 Business Cornerstone with a grade equivalent of 2.00 or higher. To enroll in CBEC 301, students must have completed the seven lower-level prerequisites with a grade equivalent of 2.00 or higher and a QPA of 2.00 or higher. It is recommended that CBEC 301 be taken after successful completion of the GenEd I.D. Advanced Composition (ENGL 317).

Upper-Level Core Requirements (36 credits)

CBEC 301	Business Cornerstone (3)
CBEC 460	Professional Experience (3)
ECON 305	Survey of International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 337	Information Technology (3)
MNGT 355	International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 363	Decision Sciences (3)
MNGT 365	Principles of Operations Management (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

Concentrations/Tracks (15 credits)

- E-Commerce Track
- Economics Track
- Finance Concentration
- Human Resource Management Track
- International Business Track
- Legal Studies Track
- Management Concentration
- Marketing Concentration

B.A. DEGREE OPTION

A student must complete all the courses required for the major and a modern foreign language's intermediate courses (or equivalent).

CBE INDIVIDUALIZED — LEGAL STUDIES TRACK

Coordinator: W. Michael Seganish, J.D.

Stephens Hall 102, 410-830-2227

To complete the major in Business Administration with the CBE Individualized — Legal Studies Track, students take 15 credits in Legal Studies in addition to 21 credits in lower-level prerequisites and 36 credits in upper-level core requirements in Business Administration. All requirements for the major must be completed with a grade equivalent of 2.00 or higher. See the Suggested Course Sequence for Business Administration Majors.

Required Courses (15 credits)

LEGL 226	Business Law (3)
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Four of the following:

LEGL 325	Sports Law (3)
LEGL 326	Elder Law (3)
LEGL 470-479	Special Topics in Legal Studies (3) (Topics include: Administrative Law, White Collar Crimes, Employment Law, Women and the Law)
MCOM 350	Media Law (3)
HLTH 441	Legal and Ethical Issues In Health Administration (3)
POSC 209	Introduction to Law (3)
POSC 418	Constitutional Law (3)

DOUBLE MAJOR IN BUSINESS ADMINISTRATION AND COMPUTER INFORMATION SYSTEMS

The Business Administration major with a second major in Computer Information Systems requires 89 credits to be earned with a grade equivalent of 2.00 or higher.

Lower-Level Prerequisite Courses (18 credits)

ACCT 201/211	Accounting Principles I (3)
ACCT 202/212	Accounting Principles II (3)
COSC 111	Information and Technology for Business (3)
ECON 201/203	Microeconomic Principles (3)
ECON 202/204	Macroeconomic Principles (3)
LEGL 225	Legal Environment of Business (3)

Required Mathematics Courses (9 credits)

MATH 231	Basic Statistics (3)
	or
ECON 205	Statistics for Business and Economics (3)
MATH 211	Calculus for Applications (3)
	or
MATH 273	Calculus I (3)
MATH 263	Discrete Math (3)

Upper-Level Core Requirements (30 credits)

CBEC 301	Business Cornerstone (3)
ECON 305	Survey of International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 355	International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 365	Principles of Operations Management (3)
CBEC 460	Professional Experience (3)
MNGT 482	Business Ethics and Society (3)
MNGT 481	Business Strategy and Policy (3)

Elective Course (3 credits)

MNGT 363	Decision Sciences (3)
	or
CIS 479	Software Project Management (3)

Computer Information Systems Requirements (29 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
CIS 239	Computer Systems Architecture (3)
CIS 334	Data Organization (3)
CIS 341	Advanced Concepts of Information Systems (3)
COSC 350	Data Communications and Networking (3)
CIS 407	Systems Analysis (3)
CIS 409	Systems Design (3)
COSC 457	Database Management Systems (3)

MINOR IN BUSINESS ADMINISTRATION (21 credits)

This minor is available to students who have a major other than Accounting or Business Administration. Students electing a Business Administration minor are not formally admitted to nor graduates of the College of Business and Economics. Students must complete at least 12 credits at Towson University in order to earn this minor.

ACCT 201	Accounting Principles I (or Honors ACCT 211) (3)
ACCT 202	Accounting Principles II (or Honors ACCT 212) (3)
ECON 201	Microeconomic Principles (or Honors ECON 203) (3)
ECON 202	Macroeconomic Principles (or Honors ECON 204) (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 361	Management and Organization Theory (3)

SUGGESTED COURSE SEQUENCE FOR BUSINESS ADMINISTRATION MAJORS

Before advancing into upper-division courses, students need to complete specific prerequisite courses with a minimum grade equivalent of 2.00 or higher. See your adviser for information.

After completing the freshman and sophomore sequences, students will still need to fulfill GenEd II.A.2 and II.C.3 in the junior or senior year. Students should consult with their adviser to make the most appropriate elective choices.

Students must complete at least one concentration/track from among E-Commerce, Economics, Finance, Human Resource Management, International Business, Management, Marketing, and Legal Studies. They must also complete *50 percent of the required 120 credits outside the College of Business and Economics*.

NOTE: Up to 9 credits in Economics may be counted as *outside CBE*. Based on course availability and student needs and preferences, the selected sequences will probably vary from those presented at right.

FRESHMAN YEAR**First Semester (15 credits)**

GenEd I.A (3)	
or	
GenEd I.B	COSC 111 Information and Technology for Business (3)
GenEd I.C	
MATH 111	Algebra for Applications (prerequisite for ECON 205/MATH 231) (3)
or	
MATH 231	Basic Statistics I (3)
or	
ECON 205	Statistics for Business and Economics (3)
GenEd II.B.2* (3)	
or	
GenEd II.C.2*ECON 201	Microeconomic Principles (ECON 203 Honors) (3)
ACCT 201	Accounting Principles I (ACCT 211 Honors) (3)

Second Semester (15 credits)

GenEd I.A (3)	
or	
GenEd I.B	COSC 111 Information and Technology for Business (3)
GenEd II.D	
Statistics	ECON 205 Statistics for Business and Economics (3)
or	
MATH 231	Basic Statistics I (3)
or	
LEGL 225	Legal Environment of Business (3)
ECON 202*	Macroeconomic Principles (ECON 204 Honors) (3)
ACCT 202	Accounting Principles II (ACCT 212 Honors) (3)

*NOTE: The GenEd II.B.2 and II.C.2 disciplines must be different. Only one ECON course may be used to fulfill a GenEd II.B.2 or II.C.2 requirement.

SOPHOMORE YEAR**First Semester (16 credits)**

GenEd II.A.1	Lab (4)
GenEd II.B.1 (3)	
LEGL 225	Legal Environment of Business (3)
or	
Elective (3)	
GenEd II.B.3 (3)	
GenEd I.E. (3)	

Second Semester (15 credits)

GenEd I.D.	ENGL 317 Writing for Business and Industry (recommended) (3)
GenEd II.A.1 (3)	
GenEd II.C.1 (3)	
MNGT 363	Decision Sciences (3)
Elective (3)	

JUNIOR YEAR**First Semester (15 credits)**

CBEC 301	Business Cornerstone (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 355	International Business (3) or MNGT 337 Information Technology (3)
MNGT 361	Management and Organization Theory (3)

Second Semester (15 credits)

ECON 305	Survey of International Economics (3)
MNGT 337	Information Technology (3) or MNGT 355 International Business (3)
MNGT 365	Principles of Operation Management (3)
Concentration/Track course (3)	
Concentration/Track course (3)	

SENIOR YEAR**First Semester (15 credits)**

CBEC 460	Professional Experience (3)
Concentration/Track course (3)	
Concentration/Track course (3)	
GenEd II.A.2 (if needed) (3)	
Elective (3)	

Second Semester (15 credits)

MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)
Concentration/Track course (3)	
GenEd II.C.3 (3)	
Elective (3)	

Department of Economics

Professors: James Dorn, John Egger, J. Van Fenstermaker,
George Georgiou (*Chair*), Chang Kong, Louise Laurence,
Harvey Paul, Tamara Woroby

Associate Professors: Kangoh Lee, Timothy Sullivan

Professors Emeriti: Bong Shin, Jeremiah German, Henry Sanborn,
Irvin Weintraub

Assistant Professors: Ling Li, Jeffrey Michael, Thomas Rhoads

Administrative Assistant: C.F. Eifert

OFFICE

Stephens Hall 103, 410-830-2959

Fax: 410-830-3424

<http://www.towson.edu/econ>

WHY STUDY ECONOMICS?

- To prepare for jobs in:

Government, such as research assistant, program analyst, and budget analyst. Government economists analyze economic conditions and estimate the economic impact of public policy.

Business and Consulting, such as financial analyst, long-range planner, and stockbroker. Business economists provide information on market conditions, forecasting, government regulations, facilities planning, product planning and pricing.

- To prepare for graduate school in such programs as Law, Economics, Public Policy, or Business Journalism
- To earn a double major in Geography and Environmental Planning, Mathematics or Political Science
- To blend business and economics by taking *either* an Economics major with a Business Administration minor *or* a Business Administration major with a track in Economics
- To have the ability to analyze the American economic system and international and domestic economic forces that determine production, prices, profits and income distribution

MISSION STATEMENT

The department is committed to an excellent economics education built on a comprehensive liberal arts foundation to enable graduates to excel as leaders in a dynamic business environment and/or a career in public service by means of individualized student advising, professional work experience, teaching excellence, and commitment to the highest academic and ethical standards.

DISTINCTIVE FEATURES

- **REGIONAL ECONOMIC STUDIES INSTITUTE (R.E.S.I.)**
 - nationally recognized institute for applied economic research
- **COUNCIL ON ECONOMIC EDUCATION IN MARYLAND (CEEM)**
 - responsible for increasing the quality and quantity of economics taught in Maryland schools, colleges and the general community
 - Institutional Advancement Division affiliate
 - Council Chair: Hoke Smith, president, Towson University
 - Council President: Michael Molloy, principal, BT Alex. Brown, Inc.
 - Council Executive Director: Carol Jarvis, Ph.D.

• CENTER FOR ECONOMIC EDUCATION

- One of nine Maryland college or university-based centers responsible for
 - consulting with educational and community organizations
 - developing economic education materials
 - improving economics instructional programs
 - conducting research in economic education
- Director: George C. Georgiou, Ph.D.
- Student Recognition Awards
 - Federal Reserve Bank Excellence Award
 - *Wall Street Journal* Award
 - J.J. German Scholarship
 - Economics Club

PROGRAMS OF THE DEPARTMENT

Major in Economics

Major in Business Administration: Economics Track

Double Major in Economics and Geography and Environmental Planning

Double Major in Economics and Mathematics

Double Major in Economics and Political Science

Minor in Economics

MAJOR IN ECONOMICS

The major in Economics requires 33 credits in Economics, completed with a grade equivalent of 2.00 or higher. (See the Suggested Course Sequence for Economics Majors.)

Transfer students must take a minimum of 15 credits in economics at Towson University to qualify for an Economics major.

Required Courses (33 credits)

ECON 201	Microeconomic Principles (or Honors ECON 203) (3)
ECON 202	Macroeconomic Principles (or Honors ECON 204) (3)
ECON 205	Statistics for Business and Economics (3)
ECON 309	Intermediate Price Theory (3)
ECON 310	Macroeconomic Theory (3)
ECON 313	Money and Banking (3)

One 400-level economics course (excluding ECON 495 and ECON 497)

Four upper-level economics electives (ECON 305 cannot count as an elective).

Only one Internship in Economics (ECON 497) will count toward the major.

Recommended Courses

The following courses are recommended for students considering graduate school in Economics: ECON 401, ECON 451, MATH 273, MATH 274, MATH 275 and MATH 463.

Also, the department allows any one of the following courses outside the department to count toward the major in satisfying four electives:

MNGT 451	Industrial Relations (3)
MATH 377	Mathematical Models (3)
GEOG 359	Economic Geography (3)
FIN 332	Advanced Financial Management (3)

MAJOR IN BUSINESS ADMINISTRATION — ECONOMICS TRACK

Students in this track complete the major in Business Administration and 15 credits in Economics, listed below. The Business Administration requirements include 21 credits in lower-level prerequisites and 36 credits in upper-level core courses. All major requirements must be completed with a grade equivalent of 2.00 or higher. See the Suggested Course Sequence for Business Administration Majors.

Lower-Level Prerequisite Courses (21 credits)

ACCT 201	Accounting Principles I (or Honors ACCT 211) (3)
ACCT 202	Accounting Principles II (or Honors ACCT 212) (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomic Principles (or Honors ECON 203) (3)
ECON 202	Macroeconomic Principles (or Honors ECON 204) (3)
ECON 205	Statistics for Business and Economics (3)
	or
MATH 231	Statistics (3)
LEGL 225	Legal Environment of Business (3)

Requirements for Continuation in the Business**Administration Major**

Students majoring in Business Administration must successfully pass CBEC 301 Business Cornerstone with a grade equivalent of 2.00 or higher before taking the upper-level core requirements. To enroll in CBEC 301, students must have completed the seven lower-level prerequisites with a grade equivalent of 2.00 or higher and a QPA of 2.00 or higher.

Upper-Level Core Requirements (36 credits)

CBEC 301	Business Cornerstone (3)
CBEC 460	Professional Experience (3)
ECON 305	Survey of International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 337	Information Technology (3)
MNGT 355	International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 363	Decision Sciences (3)
MNGT 365	Principles of Operations Management (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

Economics Track (15 credits)

ECON 309	Intermediate Price Theory (3)
ECON 310	Macroeconomic Theory (3)
ECON 313	Money and Banking (3)
ECON xxx	Upper-level Electives (6)

Recommended as one elective: ECON 409

NOTE: ECON 497 cannot count as an elective.

DOUBLE MAJORS

The Department of Economics offers three double major programs: (1) Economics and Mathematics, (2) Economics and Geography and Environmental Planning, and (3) Economics and Political Science. A student majoring in economics may declare a second major and obtain a degree certifying that both majors have been completed. A total of 33 credits in Economics must be earned to complete the major. Of these, a total of 15 credits of the following courses are required for all double major programs:

ECON 201	Microeconomic Principles (or Honors ECON 203) (3)
ECON 202	Macroeconomic Principles (or Honors ECON 204) (3)
ECON 309	Intermediate Price Theory (3)
ECON 310	Macroeconomic Theory (3)
ECON 313	Money and Banking (3)

In addition to the required Economics courses listed above, one course in statistics from the following list is required:

ECON 205	Statistics for Business and Economics (3)
MATH 332	Mathematical Statistics (3)
GEOG 375	Quantitative Methods in Geography (3)

For each specific double major, listed below are other required courses for Economics.

DOUBLE MAJOR IN ECONOMICS AND MATHEMATICS

The double major with Mathematics requires the following five additional courses:

MATH 377	Mathematical Models (3)
COSC 236	Introduction to Computer Science I (4)
ECON 451	Introduction to Mathematical Economics (3)
	Two additional electives in Economics (6)

Students should consult with the Department of Mathematics to ensure fulfilling that department's requirements.

DOUBLE MAJOR IN ECONOMICS AND GEOGRAPHY AND ENVIRONMENTAL PLANNING

The double major with Geography and Environmental Planning requires five additional courses, one of which must be a 400-level Economics course (excluding ECON 495 and ECON 497). Two of the following upper-level Economics courses can be used to satisfy the requirements of both majors:

ECON 323	Comparative Economic Systems (3)
ECON 325	Economic Development (3)
ECON 333	Poverty and Discrimination (3)
ECON 351	Urban Economics (3)
ECON 421	International Economics (3)
ECON 470-479	Topics in Economics (to be approved by the Department of Geography and Environmental Planning) (3)
ECON 40M	Practicum in Regional Economics (Minimester course) (3)

In addition, the Department of Economics accepts two of the following geography courses toward fulfilling the Economics major:

GEOG 355	Historical Geography of Urbanization (3)
GEOG 359	Economic Geography (3)
GEOG 381	Political Geography (3)
GEOG 385	Population Geography (3)
GEOG 391	Urban Systems I (3)
GEOG 393	Transportation and Infrastructure Planning (3)
GEOG 405	Comprehensive Planning (3)
GEOG 470-479	Seminar: Selected Topics in Geography (to be approved by the Department of Economics) (3)
GEOG 481	Environmental Impact Analysis (3)
GEOG 484	Land Use Planning (3)

The student should consult with the Department of Geography and Environmental Planning to ensure fulfilling that department's requirements.

DOUBLE MAJOR IN ECONOMICS AND POLITICAL SCIENCE

The double major with Political Science requires five additional courses, one of which must be a 400-level Economics course (excluding ECON 495 and ECON 497). Two of the following upper-level Economics courses can be used to satisfy the requirements of both majors:

ECON 323	Comparative Economic Systems (3)
ECON 331	Government and Economic Life (3)
ECON 337	Public Finance (3)
ECON 351	Urban Economics (3)

In addition, the Department of Economics accepts two of the following courses in Political Science toward fulfilling the Economics major:

POSC 305	Urban Government and Politics (3)
POSC 375	Public Administration (3)
POSC 470	Special Topics Course "Comparative Public Policy" (3)
POSC 473	Special Topics Course "Energy" (3)
POSC 482	Public Policy Analysis (seminar or lecture course) (3)

Students should consult the Department of Political Science to ensure fulfilling that department's requirements.

MINOR IN ECONOMICS (18 credits)

The Economics minor may be taken with any other major. All Economics courses must be completed with a grade equivalent of 2.00 or higher.

Required Courses

ECON 201	Microeconomic Principles (3)
ECON 202	Macroeconomic Principles (3)
ECON xxx	Upper-level Electives (12)

NOTE: ECON 305 cannot count as an elective.

SUGGESTED COURSE SEQUENCE FOR ECONOMICS MAJORS

Students should consult with their advisers to make the most appropriate elective choices. Based on course availability and student needs and preferences, the selected sequences may vary from those presented below.

FRESHMAN YEAR**First Semester (15 credits)**

ECON 201	Microeconomic Principles (ECON 203 Honors) (3)
GenEd (12)	

Second Semester (15 credits)

ECON 202	Macroeconomic Principles (ECON 204 Honors) (3)
GenEd (12)	

SOPHOMORE YEAR**First Semester (15 credits)**

ECON 205	Statistics for Business and Economics (3)
ECON 309	Intermediate Price Theory (3)
GenEd (9)	

Second Semester (15 credits)

ECON 310	Macroeconomic Theory (3)
ECON 313	Money and Banking (3)
Electives (9)	

JUNIOR YEAR**First Semester (15 credits)**

ECON 323	Comparative Economic Systems (3)
	or
ECON 325	Economic Development (3)
	or
ECON 333	Poverty and Discrimination (3)
ECON	Elective (3)
Electives (9)	

Second Semester (15 credits)

ECON	Elective (3)
Electives (12)	

SENIOR YEAR**First Semester (15 credits)**

ECON 4xx	Elective (3)
GenEd II.A.2 (3)	
Electives (9)	

Second Semester (15 credits)

ECON	Elective (3)
ECON	Electives (12)

Department of Finance

Professors: Alan Grimshaw (*Chair*), Daniel Singer

Associate Professors: Albert Avery, Bharat Jain, Moon-Whoan Rhee

Lecturer: Francis Rugemer

Administrative Assistant: Darlene Danaher

OFFICE

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<http://www.towson.edu/finance/>

WHY STUDY FINANCE?

- To prepare for positions in managerial finance, banking, insurance, and securities industries
- To become proficient in applying financial tools to investment and financing decisions
- To develop analytical skills that can be used throughout a business career
- To build a solid foundation for making personal financial decisions

MISSION STATEMENT

The mission of the Department of Finance is to produce finance graduates who possess the knowledge, skills and abilities necessary to function effectively in the financial community. The department's aim is to develop students who are competent, ethical, and capable of meeting the challenges of an increasingly complex, global environment.

GOALS

The goals of the department are: (1) to achieve excellence in teaching while offering students a curriculum based on leading-edge financial skills and techniques, (2) to increase the body of knowledge in the finance professions through applied scholarship activities, and (3) to provide consulting and advisory services to the business and professional community.

DISTINCTIVE FEATURES

- Finance Department Advisory Board
- FMA (Student Chapter of Financial Management Association)
- FMA Honor Society
- Internships in Finance
- Student Recognition Awards
 - Baltimore Security Analysts Society
 - Baltimore Security Traders Association
 - Bell Atlantic Telephone Company

MAJOR IN BUSINESS ADMINISTRATION — FINANCE CONCENTRATION

Students in the Finance Concentration complete the major in Business Administration and 15 credits in Finance. The Business Administration requirements include 21 credits in lower-level prerequisites and 36 credits in upper-level core requirements, as listed below. All major requirements must be completed with a grade equivalent of 2.00 or higher. See the Suggested Course Sequence for Business Administration Majors.

Lower-Level Prerequisite Courses (21 credits)

ACCT 201	Accounting Principles I (or Honors ACCT 211) (3)
ACCT 202	Accounting Principles II (or Honors ACCT 212) (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomic Principles (or Honors ECON 203) (3)
ECON 202	Macroeconomic Principles (or Honors ECON 204) (3)

ECON 205	Statistics for Business and Economics (3)
	or
MATH 231	Statistics (3)
LEGL 225	Legal Environment of Business (3)

Requirements for Continuation in the Business Administration Major

Students majoring in Business Administration must successfully pass CBEC 301 Business Cornerstone with a grade equivalent of 2.00 or higher. To enroll in CBEC 301, students must have completed the seven lower-level prerequisites with a grade equivalent of 2.00 or higher and a QPA of 2.00 or higher. It is recommended the CBEC 301 be taken after successful completion of the GenEd I.D. Advanced Composition (ENGL 317).

Upper-Level Core Requirements (36 credits)

CBEC 301	Business Cornerstone (3)
CBEC 460	Professional Experience (3)
ECON 305	Survey of International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 337	Information Technology (3)
MNGT 355	International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 363	Decision Sciences (3)
MNGT 365	Principles of Operations Management (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

Finance Concentration (15 credits)

FIN 332	Advanced Financial Management (3)
FIN 333	Investments and Security Analysis I (3)
FIN 430	Capital Markets and Management of Financial Institutions (3)
FIN 435	International Finance (3)
FIN 439	Financial Policy (3)

Department of Marketing and Management

Chair: Shohreh Kaynama

Professors: David DeCenzo, William Grazer, Garland Keesling, Algin King, Thomas Maronick, Barin Nag, Louise Smith, Janet Solomon, Precha Thavikulwat

Associate Professors: William Darrow, Allan Miller, Sharma Pillutla, Douglas Ross, William Smith

Assistant Professors: Donald Kopka, Carolina Gomez, Duane Helleloid, Richard Rosecky, Filiz Tabak

Senior Lecturers: Tom Basuray, Don McCulloh

Lecturer: Laleh Srnc

Administrative Assistants: Terry Dupert, Cary Smedley

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<http://www.towson.edu/cbe/Department/Management/main.html>

MISSION STATEMENT

The Department of Marketing and Management is committed to an excellent broad-based education in marketing and management that enables students to excel in positions of responsibility and leadership in a dynamic business environment by means of:

- Dedication to students and personalized service
- Teaching excellence
- Involvement with businesses, nonprofit organizations, and government
- Commitment to the highest ethical standards

PROGRAMS OF THE DEPARTMENT

The Department of Marketing and Management offers the following programs:

The major in Business Administration with

- E-Commerce Track
- Human Resource Management Track
- International Business Track
- Management Concentration
- Marketing Concentration

WHY STUDY MANAGEMENT?

- To prepare for careers such as line manager, human resource manager, small business manager and entrepreneur
- To understand a basic function common to all organizations, from teams to multinational corporations

DISTINCTIVE FEATURES

- Student Chapter of Students in Free Enterprise
- Student Recognition Awards
 - Keimig Award
 - Chairperson's Award
- Bell Atlantic Scholarship

MAJOR IN BUSINESS ADMINISTRATION — MANAGEMENT CONCENTRATION

Students in the Management Concentration complete the major in Business Administration and 15 credits in Management. Areas

of study include: Management Concentration and Human Resource Management Track.

The Business Administration requirements include 21 credits in lower-level prerequisites, and 36 credits in upper-level core requirements, as listed below. All major requirements must be completed with a grade equivalent of 2.00 or higher. See the Suggested Course Sequence for Business Administration Majors.

Lower-Level Prerequisite Courses (21 credits)

ACCT 201	Accounting Principles I (or Honors ACCT 211) (3)
ACCT 202	Accounting Principles II (or Honors ACCT 212) (3)
LEGL 225	Legal Environment of Business (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomic Principles (or Honors ECON 203) (3)
ECON 202	Macroeconomic Principles (or Honors ECON 204) (3)
ECON 205	Statistics for Business and Economics (3)
	<i>or</i>
MATH 231	Statistics (3)

Requirements for Continuation in the Business Administration Major

Students majoring in Business Administration must successfully pass CBEC 301 Business Cornerstone with a grade equivalent of 2.00 or higher. To enroll in CBEC 301, students must have completed the seven lower-level prerequisites with a grade equivalent of 2.00 or higher and a QPA of 2.00 or higher. It is recommended that CBEC 301 be taken after successful completion of GenEd I.D. Advanced Composition (ENGL 317).

Upper-Level Core Requirements (36 credits)

CBEC 301	Business Cornerstone (3)
CBEC 460	Professional Experience (3)
ECON 305	Survey of International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 337	Information Technology (3)
MNGT 355	International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 363	Decision Sciences (3)
MNGT 365	Principles of Operations Management (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

Management Concentration (15 credits)

MNGT 381	Human Resource Management (3)
MNGT 443	Project Management (3)
MNGT 463	Organizational Leadership (3)
<i>Two MNGT electives selected from:</i>	
MNGT 419	Supply-Chain Management (3)
MNGT 421	Management of Organizational Behavior (3)
MNGT 423	Service Operations Management (3)
MNGT 425	Organizational Theory and Development (3)
MNGT 433	Compensation and Benefits (3)
MNGT 438	Multinational Management and Culture (3)
MNGT 443	Project Management (3)
MNGT 451	Industrial Relations (3)
MNGT 453	Conflict Resolution in Business (3)
MNGT 455	Entrepreneurship and Small Business (3)
MNGT 461	Total Quality Management (3)
MNGT 470-479	Special Topics in Management (3)
MNGT 491	Directed Readings (1-3)
MNGT 495	Independent Research (1-3)
MNGT 497	Management Internship (1-3)
MNGT 498	Practicum in Management (1-3)

NOTE: Only 3 credits of the MNGT 497 or 498 courses can be applied to the Management Concentration requirement.

MAJOR IN BUSINESS ADMINISTRATION — HUMAN RESOURCE MANAGEMENT TRACK

The Human Resource Management Track is designed to prepare students to apply their knowledge and skills for managerial positions in a human resource department. Students

in the Human Resource Management Track complete the major in Business Administration and 15 credits in Human Resource Management. The Business Administration requirements include 21 credits in lower-level core prerequisites, and 36 credits in upper-level core requirements, as listed below. All major requirements must be completed with a grade equivalent of 2.00 or higher. See the Suggested Course Sequence for Business Administration Majors.

Lower-Level Core Requirements (21 credits)

ACCT 201	Principles of Accounting I (or Honors ACCT211) (3)
ACCT 202	Principles of Accounting II (or Honors ACCT212) (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomics (or Honors ECON203) (3)
ECON 202	Macroeconomics (or Honors ECON204) (3)
LEGL 225	Legal Environment of Business (3)
ECON 205	Statistics for Business and Economics (3)
	<i>or</i>
MATH 231	Basic Statistics (3)

Requirements for Continuation in the Business Administration Major

Students majoring in Business Administration must successfully pass CBEC 301, Business Cornerstone, with a grade equivalent of 2.00 or higher. To enroll in CBEC 301, students must have completed the seven lower-level core prerequisites with a grade equivalent of 2.00 or higher and a QPA of 2.00 or higher. It is recommended that CBEC 301 be taken after successful completion of GenEd I.D. Advanced Composition (ENGL 317).

Upper-Level Core Requirements (36 credits):

CBEC 301	Business Cornerstone (3)
CBEC 460	Professional Experience (3)
ECON 305	Survey of International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 337	Information Technology (3)
MNGT 355	International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 363	Decision Sciences (3)
MNGT 365	Principles of Operations Management (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

Human Resource Management Track (15 credits)

MNGT 381	Human Resources Management (3)
MNGT 451	Industrial Relations (3)
MNGT 453	Conflict Resolution in Business (3)
<i>Two electives selected from:</i>	
MNGT 421	Management of Organizational Behavior (3)
MNGT 425	Organizational Theory and Development (3)
MNGT 433	Compensation and Benefits (3)
MNGT 443	Project Management (3)
MNGT 463	Organizational Leadership (3)

WHY STUDY MARKETING?

- To prepare for jobs that comprise 25 to 33 percent of all civilian jobs. Entry-level, college-graduate jobs include assistant product manager, sales representative, assistant store manager, research trainee, retail management trainee, customer service representative, assistant media buyer, assistant merchandiser, promotion and public relations assistant, and marketing trainee.
- To understand the essential element that links all businesses with their customers. All people have needs. All companies want to satisfy those needs. Marketers are customer-driven business persons.
- To help generate company profits while holding a fast-paced, visible, dynamic, desirable and well-paid position. All business planning starts and ends with marketing.

DISTINCTIVE FEATURES

- Student Chapter of American Marketing Association
- The J. Dunbar, Jr. Memorial Scholarship
- Outstanding Marketing Graduate Award
- Marketing internships with prestigious organizations
- Bell Atlantic Scholarship

MAJOR IN BUSINESS ADMINISTRATION — MARKETING CONCENTRATION

Students in the Marketing Concentration complete the major in Business Administration and 15 credits in Marketing.

The Business Administration requirements include 21 credits in lower-level prerequisites and 36 credits in upper-level core requirements, as listed below. All major requirements must be completed with a grade equivalent of 2.00 or higher. See the Suggested Course Sequence for Business Administration Majors.

Lower-Level Prerequisite Courses (21 credits)

ACCT 201	Accounting Principles I (or Honors ACCT 211) (3)
ACCT 202	Accounting Principles II (or Honors ACCT 212) (3)
LEGL 225	Legal Environment of Business (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomic Principles (or Honors ECON 203) (3)
ECON 202	Macroeconomic Principles (or Honors ECON 204) (3)
ECON 205	Statistics for Business and Economics (3)
	or
MATH 231	Statistics (3)

Requirements for Continuation in the Business Administration Major

Students majoring in Business Administration must successfully pass CBEC 301 Business Cornerstone with a grade equivalent of 2.00 or higher. To enroll in CBEC, students must have completed the seven lower-level prerequisites with a grade equivalent of 2.00 or higher and a QPA of 2.00 or higher. It is recommended that CBEC 301 be taken after successful completion of GenEd I.D. Advanced Composition (ENGL 317).

Upper-Level Core Requirements (36 credits)

CBEC 301	Business Cornerstone (3)
CBEC 460	Professional Experience (3)
FIN 331	Principles of Financial Management (3)
ECON 305	Survey of International Economics (3)
MNGT 355	International Business (3)
MKTG 341	Principles of Marketing (3)
MNGT 337	Information Technology (3)
MNGT 361	Management and Organization Theory (3)
MNGT 363	Decision Sciences (3)
MNGT 365	Principles of Operations Management (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

Marketing Concentration (15 credits)

MKTG 425	Buyer Behavior Analysis (3)
MKTG 441	Marketing Research and Forecasting (3)
MKTG 485	Strategic Marketing (3)
<i>Two MKTG electives selected from:</i>	
MKTG 345	Advertising Management (3)
MKTG 347	Services Marketing (3)
MKTG 349	Product Development and Planning (3)
MKTG 351	Sales Management (3)
MKTG 355	Retail Management (3)
MKTG 357	Marketing Channels (3)
MKTG 361	Marketing for Nonprofit Organizations (3)
MKTG 371	Principles of Transportation (3)
MKTG 442	Marketing Seminar (3)
MKTG 445	International Marketing (3)
MKTG 470-479	Special Topics in Marketing (3)
MKTG 497	Marketing Internship (1-3)

NOTE: Only 3 credits of the MKTG 497 course can be applied to the Marketing Concentration requirement.

MARKETING — MASS COMMUNICATION INTERDISCIPLINARY SPECIALIZATION

Completion of the Business Administration major with a Marketing Concentration, and 15 credits as follows:

Mass Communication Advertising Specialization

MCOM 125	Introduction to Public Relations and Advertising (3)
MCOM 214	Principles of Advertising (3)
MCOM 325	Advertising Copywriting (3)
MCOM 360	Advertising Campaigns and Portfolio Design (3)
MCOM 440	Advertising Media Sales (3)

Mass Communication Public Relations Specialization

MCOM 125	Introduction to Public Relations and Advertising (3)
MCOM 253	Principles of Public Relations (3)
MCOM 357	Public Relations Writing (3)
COMM 422	Conference and Meeting Management (3)
	or
MCOM 451	Public Relations for Nonprofit Organizations (3)
MCOM 453	Public Relations Campaigns (3)

NOTE: Students must earn at least a grade equivalent of 2.00 or higher in each required course in the specialization.

Major in Business Administration — Electronic Commerce Track

This program is designed for individuals who aspire to work in technologically oriented companies and/or assist small businesses and less-developed companies in keeping up with the changes in the business world. Students will be able to develop, host and maintain online businesses in terms of applications of both Web-based and business strategies. All major requirements must be completed with a grade equivalent of 2.00 or higher. The program consists of 21 credits in lower-level core prerequisites, 36 credits in upper-level core requirements and 15 credits in the E-Commerce Track.

NOTE: Admission into the E-Commerce Track may require screening.

Lower-Level Core Prerequisites (21 credits)

ACCT 201	Principles of Accounting I (or Honors ACCT211) (3)
ACCT 202	Principles of Accounting II (or Honors ACCT212) (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomics (or Honors ECON203) (3)
ECON 202	Macroeconomics (or Honors ECON204) (3)
LEGL 225	Legal Environment of Business (3)
ECON 205	Statistics for Business and Economics (3)
	or
MATH 231	Basic Statistics (3)

Requirements for Continuation in the Business Administration Major

Students majoring in Business Administration must successfully pass CBEC 301 Business Cornerstone with a grade equivalent of 2.00 or higher. To enroll in CBEC 301, students must have completed the seven lower-level prerequisites with a grade equivalent of 2.00 or higher and a QPA of 2.00 or higher. It is recommended that CBEC 301 be taken after successful completion of the GenEd I.D. Advanced Composition (ENGL 317).

Upper-Level Core Requirements (36 credits)

CBEC 301	Business Cornerstone (3)
CBEC 460	Professional Experience (3)
ECON 305	Survey of International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 337	Information Technology (3)
MNGT 355	International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 363	Decision Sciences (3)
MNGT 365	Principles of Operations Management (3)

MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

E-Commerce Track (15 credits)

ECOM 411	E-Commerce Marketing (3)
ECOM 311	Principles of E-Commerce (3)
ECOM 367	Internet Technology (3)
ECOM 431	E-Commerce Policy and Strategy (3)
ECOM 4xx	Ecom Course (3)

MAJOR IN BUSINESS ADMINISTRATION— INTERNATIONAL BUSINESS TRACK

The International Business Track is an interdisciplinary program comprising courses drawn from disciplines within the CBE. Students complete the major in Business Administration and 15 credits in the International Business Track requirements.

The Business Administration requirements include 21 credits in lower-level prerequisites and 36 credits in upper-level core requirements, as listed below. All major requirements must be completed with a grade equivalent of 2.00 or higher. See the Suggested Course Sequence for Business Administration Majors.

Lower-Level Prerequisite Courses (21 credits)

ACCT 201	Accounting Principles I (or Honors ACCT 211) (3)
ACCT 202	Accounting Principles II (or Honors ACCT 212) (3)
LEGL 225	Legal Environment of Business (3)
COSC 111	Information and Technology for Business (3)
ECON 201	Microeconomic Principles (or Honors ECON 203) (3)
ECON 202	Macroeconomic Principles (or Honors ECON 204) (3)
ECON 205	Statistics for Business and Economics (3)
	<i>or</i>
MATH 231	Statistics (3)

Requirements for Continuation in the Business Administration Major

Students majoring in Business Administration must successfully pass CBEC 301 Business Cornerstone with a grade equivalent of 2.00 or higher. To enroll in CBEC 301, students must have completed the seven lower-level prerequisites with a grade equivalent of 2.00 or higher and a QPA of 2.00 or higher. It is recommended that CBEC 301 be taken after successful completion of GenEd 1.D. Advanced Composition (ENGL 317).

Upper-Level Core Requirements (36 credits)

CBEC 301	Business Cornerstone (3)
CBEC 460	Professional Experience (3)
ECON 305	Survey of International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 337	Information Technology (3)
MNGT 355	International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 363	Decision Sciences (3)
MNGT 365	Principles of Operations Management (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

International Business Track (15 credits)

FIN 435	International Finance (3)
MKTG 445	International Marketing (3)
MNGT 438	Multinational Management and Culture (3)

Two courses selected from:

ECON 323	Comparative Economic Systems (3)
ECON 325	Economic Development (3)
ECON 421	International Economics (3)
ECON 423	International Monetary System (3)
FIN 430	Capital Markets and Management of Financial Institutions (3)
MKTG 441	Marketing Research and Forecasting (3)







The College of Education

Towson University has a distinguished history in the preparation of classroom teachers and education specialists. As the first teacher-training institution in Maryland, Towson University has been preparing men and women for teaching careers for over 130 years. Programs of study within the College of Education lead to the baccalaureate degree in education with certification in early childhood education, elementary education, and special education (infant/primary and secondary/adult). In addition, the college offers programs that lead to certification in secondary education and K-12 education for those students enrolled in other colleges of the university. Programs of study within the college are constantly assessed and reorganized in order to provide students with three essentials for professional success: 1) a challenging general education in a variety of disciplines; 2) in-depth content knowledge in the field of teaching specialization; 3) and a professional education based upon current research and models of best practice.

The teaching faculty in the College of Education is dedicated to providing a background in research on learning and methods of instruction which prepares teachers and education specialists as facilitators of active learning for diverse and inclusive communities of learners in environments that are technologically advanced. To promote this goal, the faculty are committed to active participation in the academic community as teachers, scholars and advisers. They use methods of instruction which emphasize active student learning through the integration of content knowledge with the study and practice of effective pedagogy.

Dennis Hinkle, Dean
Thomas Proffitt, Associate Dean

Early Childhood Education
Elementary Education
Instructional Technology
K-12 Teacher Education (Art, Dance, Health Education,
Physical Education, Music)
Reading
School Library/Media
Secondary Education
Special Education

COLLEGE OFFICE
Hawkins Hall 301, 410-830-2570
Fax: 410-830-2733
www.towson.edu/coe

CERTIFICATION AND ACCREDITATION

The College of Education offers programs of study leading to the baccalaureate degree in education with certification to teach early childhood, elementary, secondary, special education (infant/primary and secondary/adult) and K-12 education.

Teacher Education programs are approved by the Maryland State Department of Education, which uses state and nationally recognized standards. Completion of an approved program qualifies graduates for certification in all states that are members of the Interstate Reciprocity Compact. Applicants for Maryland teaching certificates are required to achieve qualifying scores on the Praxis I and II examinations, as determined by the Maryland State Board of Education.

MISSION STATEMENT

The mission of teacher education at Towson University is to inspire, educate, and prepare educators as facilitators of active learning for diverse and inclusive populations in environments that are technologically advanced. In this process, faculty members assume the responsibility for designing, developing, implementing and assessing academic programs for:

1. entering College of Education freshmen
2. community college transfer students
3. postbaccalaureate degree students seeking certification (MAT, approved programs)
4. master's degree students
5. post-master's degree students seeking continuous professional development

VISION STATEMENT

The vision of teacher education at Towson University is to build upon its rich heritage and excellent reputation and to position itself to maintain a leadership role in academic program planning and public policy formulation. By maintaining this leadership role, teacher education can ensure that active learning occurs in diverse and inclusive educational environments where contemporary information resources are available. Thus, teacher education, in collaboration with other public/private agencies, can assist in the readiness of all learners to succeed in a rapidly changing, diverse and highly technical world. In order to achieve this vision, Teacher Education programs at Towson University are committed to:

1. ensuring the mastery of appropriate content in general studies in the liberal arts and sciences
2. reflecting upon and refining best practices—professional knowledge and skills—to develop a repertoire of instructional and assessment strategies
3. preparing students for diverse and inclusive communities of learners through systematic exposure to heterogeneous populations
4. utilizing appropriate technologies which reflect best practices in education
5. helping develop, internalize and display professional conscience (a commitment to ethical practice, inquiry, knowledge, competence, caring and social justice in a democratic society)
6. developing collaborative partnerships with the public/private sector
7. playing a leadership role in teacher education through scholarly endeavors

PROGRAM OUTCOMES

All Teacher Education programs utilize Maryland's *Essential Dimensions of Teaching* or the *Interstate New Teacher Assessment and Support Consortium Principles* as the performance-based outcomes for teacher candidates.

ADMISSION TO TEACHER EDUCATION

The College of Education admits students either as freshmen or as undergraduate transfer students from accredited, post-secondary institutions. During the freshman and sophomore years, students are generally engaged in pre-professional courses or courses that fulfill General Education requirements.

Advising and Screening

Students who plan to enter Teacher Education programs must visit the Center for Applied Skills in Education (CASE), Hawkins Hall, room 302, early in their first semester in order to:

1. declare their major or concentration
2. complete a Criminal Background Disclosure Form
3. be assigned an adviser according to their chosen major
4. obtain information about the required speech and hearing screening
5. obtain information about the required Praxis I tests

Admission to Professional Education Programs

Full admission to the professional program is conditional on meeting the following requirements:

1. completion of a written application for formal admission to the program
2. minimum overall quality point average of 2.50 in Secondary Education; minimum overall quality point average of 2.75 in Early Childhood, Elementary Education and Special Education; (Students in Art Education, Dance Education, Health Education, Music Education and Physical Education should contact their department chairperson for procedures and requirements for admission to these programs.)
3. completion of speech and hearing screening
4. completion of English 102/190 or equivalent course with grade equivalent of 2.00 or higher; Secondary Education also requires an admission essay
5. successful completion of Praxis I Academic Skills Assessments; qualifying scores must be submitted to the CASE Office for admission to College of Education programs. Information on the Praxis tests is available in the CASE Office, Hawkins Hall, room 302.
6. All students applying for admission to a Teacher Education program at Towson University are required to complete a Criminal Background Disclosure Form. This form may be obtained from the department for K-12 programs and from the CASE Office for College of Education programs. The form is to be notarized and sent to the director of CASE to be kept on file. Janet Martin of the CASE Office is a notary with posted office hours.

In addition to the undergraduate program, the College of Education offers approved postbaccalaureate "certification only" programs for baccalaureate graduates seeking Maryland state certification. Certification only students must receive a passing score (as determined by the Maryland State Department of Education) on Praxis I and attain the required quality point average prior to admission.

Admission to Student Teaching

Students apply for student teaching over the Internet (<http://bacost.towson.edu>) through the CASE Office by the mid-semester date of the semester prior to student teaching. All Teacher Education students must successfully complete the Praxis I tests and speech and hearing screening. Effective fall 1999, all preservice students in Teacher Education programs at Towson University whose program of study requires an intensive/extensive internship or student teaching experience in a public or private school setting (pre-K through 12), will be required to undergo a criminal background check before beginning this experience. The criminal background check must be filed with the director of CASE. Forms are available in the CASE Office only. Students may use University Police for fingerprinting services.

The Teacher Education Executive Board (TEEB) reserves the right to refuse, deny or revoke the application for admission to professional education programs or entry into student teaching of any student whose observed conduct is deemed incongruent with established guidelines of student demeanor for those planning to enter the teaching profession.

Students must have completed the following minimum requirements prior to student teaching:

1. completion of a criminal background check; the criminal background check must be received by CASE prior to entry into student teaching.
2. minimum of 75 credits completed for K-12 programs; 90 credits completed for Early Childhood, Elementary Education, and Special Education; for Secondary Education—senior status
3. completion of electronic application and student data sheet for student teaching, available at <http://bacost.towson.edu> through the CASE Office
4. minimum quality point average of 2.50 in Secondary Education, Dance Education, Health Education, Music Education and Physical Education; minimum quality point average of 2.75 in Early Childhood Education, Elementary Education, Special Education and Art Education
5. minimum average of 2.75 in academic major (applicable only in programs requiring an academic major)
6. minimum average of 3.00 in professional education courses for Early Childhood Education, Elementary Education, Special Education and Art Education; 2.75 for Secondary Education and remaining K-12
7. All K-12 programs require a passing score (as determined by the Maryland State Department of Education) on Praxis I.

Because some of Towson's Teacher Education programs have selected additional requirements for admission to student teaching, students should refer to the section of this catalog related to their specific majors.

Students should arrange to take Praxis I at the completion of their sophomore year. Praxis application forms are available in the CASE Office. In some instances, supplementary course work or remedial activities may be required prior to student teaching.

STUDENT TEACHING PLACEMENTS

Each teacher education student who has reached the appropriate level of competency is placed in a cooperating local school system. Students may be placed in schools where methods courses are taught by a college supervisor, or individual placements are made for students who have taken methods courses on campus. In conjunction with area school systems, every attempt is made to secure the available placement that best meets the needs of the individual student.

Differentiated student teaching (an additional and/or special student teaching experience) may be taken by students with the permission of their adviser.

Students enrolled in student teaching are charged a fee ranging from \$200 to \$400 per student-teaching experience. This fee is used for remuneration to cooperating teachers in schools where student teaching is completed.

CENTER FOR APPLIED SKILLS IN EDUCATION (CASE)

OFFICE

Hawkins Hall 302, 410-830-2567

Director: Lee Bush

Assistant Director: Juliann Dibble

The Center for Applied Skills in Education (CASE) is a service office supported by the College of Education at Towson University. The major purpose of the center is to assist students and instructors in placing students in a variety of field settings for internship experiences. More specific operations include:

1. coordinating/overseeing field experiences—preservice and student teaching/internship
2. counseling students regarding field work
3. maintaining liaison between schools/agencies and university departments
4. coordinating student advising (orientation, declaration of major, assignment of advisers, etc)
5. providing information to Education majors on Praxis and speech and hearing test administrations
6. tracking Education majors and maintaining Education student records
7. evaluating requests for credit for prior teaching experience
8. coordinating the Student Teaching Abroad Program

Department of Early Childhood Education

Professors: Terry Berkeley (*Chair*), Barry Frieman

Associate Professor: Ocie Watson-Thompson

Assistant Professors: Mubina Kirmani, Patricia Waters, Edyth

Wheeler (*Graduate Director*), Pat Wilson, Nancy Wiltz

Instructors: Joan Ports, Patsy Washington

OFFICE

Hawkins Hall 014, 410-830-2572

Fax: 410-830-2733

e-mail: lcaldwell@towson.edu

PROGRAMS OF THE DEPARTMENT

The Department of Early Childhood Education offers the following programs of study: the major in Early Childhood Education, the major in Elementary Education with eligibility for Early Childhood Education Certification, the Master of Arts in Teaching in Early Childhood Education, and the Master of Education in Early Childhood Education. For more information about the graduate program, consult the *Graduate Catalog*.

The Towson University Department of Early Childhood Education faculty prepares teachers to act as advocates for young children and their families, and to create and facilitate developmentally appropriate environments for them. The guiding principles that follow are the philosophical and practical basis for departmental programs.

Students entering the Early Childhood Education program are made aware of the sophisticated and demanding work that teachers of young children perform, and they are screened for admission into the program accordingly. Developing teachers are enabled to recognize teaching as one of the highest and most dynamic professional callings to which one can aspire. Faculty facilitate the developing teacher's respect, pride and commitment to the teaching profession. Faculty are able to motivate and inspire developing teachers, in the most positive of ways, to have a sense of their ability to exert positive power in learning scenarios, as well as exerting a firm sense of professional self-direction and decision-making skills. Faculty assists developing teachers to become reflective and ever-growing practitioners. From the outset, developing teachers are taught, and provided models, that only the very best is good enough for young children and their families.

Faculty members work to awaken and support the developing teacher's ability to value and approach children from broad intellectual, academic and social foundations. Developing teachers are prepared to rely upon those foundations in order to support the development of relevant and challenging curricula and to learn to respond to young children's immediate and long-term needs.

Content-appropriate and developmentally appropriate pedagogy facilitates integrated learning experiences and environments for young children. The faculty understands how young children develop and learn, thus, they facilitate in developing teachers content-appropriate pedagogy. The faculty also provides a wealth of experiences, strategies, creativity, and resources that enable developing teachers to draw in and inspire young children in the various content areas.

The Early Childhood faculty helps developing teachers understand how their personal and professional philosophies prompt them to facilitate the development of the "whole child." Integrated knowledge about child development is crucial to understanding children's play, learning and socialization. The faculty makes it apparent to developing teachers that assessing and responding to children's individual differences and developmental needs requires resourcefulness, responsibility and

responsiveness. Developing teachers are encouraged to respond to the individual child while recognizing that their responses occur incrementally within the context of meeting the needs of a total group or class.

Faculty members in Early Childhood Education are committed to enabling developing teachers to meet the diverse learning needs of all young children, particularly in terms of their creative and aesthetic development, their learning modalities or styles (visual, auditory, kinesthetic and tactile), and their myriad intelligences (spatial, musical, mathematical, linguistic, kinesthetic and personal). Moreover, the faculty encourages students to become teachers who value the significance of human diversity and the richness, beauty and power that human diversity offers to classrooms and other places where learning takes place. Faculty and developing teachers, therefore, are committed to designing diversity-rich environments that encourage respect for the individuality of teachers and young children. Additionally, the faculty promotes respect for families and the importance of family in the lives of children. All of this serves as the ethical foundation of practice, providing a basis for developing teachers to move toward high ideals in their work with young children and their families.

Major in Elementary Education/Early Childhood Certification

In cooperation with Elementary Education, students can select courses that will enable them to become certified in Early Childhood Education and Elementary Education. Graduates of this program would be eligible to teach children from birth through age 13. Interested students should contact the chairs of both departments to plan their program.

Postbaccalaureate Early Childhood Education Program

As a service to teachers who wish to pursue a degree in Early Childhood Education while they are on their teaching assignments and to other workers in programs for young children, the university offers an alternate program during evenings and summers for the preparation of nursery school, kindergarten, day care center, and primary teachers which will enable them to major in Early Childhood Education. There is a requirement to student teach and to participate in the student teaching seminar during daytime hours. See the department chairperson for information.

Special Education

Courses leading to state certification in Special Education are available through the Department of Reading, Special Education and Instructional Technology. State certification is generic but age specific and requires 39 credits, many of which are required for Early Childhood Education majors.

School Library Media

Early Childhood Education students may acquire an additional state certification endorsement for school media center positions (Educational Media Associate, Level I) by adding 18 credits of certain Instructional Technology (ISTC) electives to their major. Interested students should contact the Department of Reading, Special Education and Instructional Technology.

MAJOR IN EARLY CHILDHOOD EDUCATION

To meet university, college, and Maryland certification requirements in general education and professional education courses, students must complete a 125-hour program for graduation. Students must have a grade equivalent average of 3.00 or higher in all courses in the major; this includes interdisciplinary courses taken during the final four semesters of the program. Students must maintain an overall grade point equivalent average of 2.75 or higher in all courses from all institutions of higher education in which the student has been enrolled.

All students, beginning with their enrollment in ECED 101, Introduction to Early Childhood Education, will be responsible for compiling and refining a Professional Portfolio. Student portfolios will be assessed and evaluated throughout the program.

Early Childhood Education majors need to confer with an adviser from the department each semester to ensure that their planned program of study meets college, university, and state requirements. This is particularly important if students are pursuing minors or if they are planning for additional certifications. Students also need to check with their departmental adviser prior to taking a course on a Pass grading option as courses in the major and courses required for certification cannot be taken using the Pass/Fail grading option.

Early Childhood Education Screening Criteria

Early Childhood Education is a screened major. Students apply to the program in the fourth semester for formal entry into the program beginning in the fifth semester. Students are required to maintain a 2.75 cumulative grade point average and a 3.00 grade point average in courses related to the major from the time they enter the program until the time of graduation.

The following requirements must be met for entry into the major:

1. completion of the university speech and hearing test
2. completion of 60 or more credits, including ENGL 102/190 with a grade equivalent of 2.00, and ECED 101 and ECED 201 with a grade equivalent of 2.50 or higher
3. achievement of a cumulative QPA of 2.75; this includes transferred grades and grades earned at TU. (A failed course that has been repeated satisfactorily at another institution will be eliminated only from the computation for admission in the Early Childhood Education program. Courses taken at Towson and repeated at another college or university do not apply to Towson's repeated-course policy. See "Transferring Work to Towson" under the Academic Regulations section of this catalog.)
4. A score at or above the level established in March 1999 by the Maryland State Board of Education on the Praxis I - Academic Skills Assessments Examination: Pre-Professional Skills Tests (PPST) - Math: 177; Reading: 177; Writing: 173 or Computer Based Tests (CBT) - Math: 322; Reading: 325; Writing: 319.
5. application, including official transcripts from all post-high-school institutions, submitted to the Center for Applied Skills in Education (CASE) Office by the announced closing date sent to eligible students each semester (Note: Students are required to submit a "Blue Card" to the department office, Hawkins Hall, room 14, and to update the information on the card each semester. The Blue Card is completed with the assistance of the student's adviser.)
6. Effective fall 1999, all students applying for admission to a Teacher Education program at Towson University are required to complete a Criminal Background Disclosure Form. It is the responsibility of the student to have the form notarized. The form is then sent to the director of the CASE Office and kept on file.

ECED Student Teaching Internship Criteria

Admission into the Student Teaching Internship requires a cumulative QPA of 2.75 or higher *and* a 3.00 or higher in the major.

Effective fall 1999, all students in Teacher Education programs at Towson University will be required to undergo a Criminal Background Check *before* entering the Student Teaching Internship. The Criminal Background Check shall be filed with the director of the CASE Office, where it is kept on file.

During the Student Teaching Internship semester, a student can take a maximum of 16 credits unless the department chair gives prior approval.

Students need to complete Praxis II - Content Area Assessments no later than during their student teaching internship if they expect to attain certification upon graduation. A score at or above the level established in July 1999 by the Maryland State Board of Education on the Praxis II Examination (Pre-Professional Skills Test (PPS) - Early Childhood Education: 600).

REQUIRED COURSES AND SUGGESTED SCHEDULE FOR MAJORS (125 credits)

Semester 1 (16 credit hours)

PSYC 101	Introduction to Psychology (3) (II.C.2)
ART xxx	Performance course (3) (I.E.-Creativity and Creative Development)
MATH 204	Mathematical Concepts and Structures I (4)
ENGL 102/190	Writing for a Liberal Education/Honors Writing Seminar (3) (I.A.)
ISTC 201	Using Information Effectively in Education (3) (I.B.)

Semester 2 (16 credit hours)

PSYC 201	Educational Psychology (3)
MUSC 101	Introduction to Music of the Western Heritage (3) (II.C.1)
BIOL 110	Contemporary General Biology (4) (II.A.1)
ECED 101	Introduction to Early Childhood Education (3)
ENGL 233	Survey of African-American Literature (3) (II.C.3) or
ENGL 234	Major Writers in African-American Literature (3) (II.C.3) or
ENGL 235	Ethnic-American Literature (3) (II.C.3)

Semester 3 (17 credit hours)

HIST 145	History of the United States to the Mid-19th Century (3) (II.B.1) or
HIST 146	History of the United States since the Mid-19th Century (3) (II.B.1)
MATH 205	Mathematical Concepts and Structures II (4) (I.C.)
ECED 201	Intervention and the Young Child (3)
ENGL xxx	English elective (3)
PHSC 101	Physical Science I (4)

Semester 4 (17 credit hours)

HLTH 101	Wellness for a Diverse Society (3) (II.B.3)
MATH 251	Elements of Geometry (4)
KNES 281	Physical Education for Elementary Education Students (1)
SPED 301	Introduction to Special Education: K-12 (3)
GenEd (II.B.2)	Elective (3) <i>American Experience: Social and Behavioral Sciences</i>
GenEd (II.D.)	Elective (3) <i>Global Awareness: Non-Western Cultures, Traditions and Issues</i>

Semester 5 (16 credit hours)

ECED 315	Infant Intervention (3)
ECED 321	Foundations of Reading and Language Arts (3)
ECED 407	Interactive Technology and the Young Child (3)
ECED 422	Writing Techniques for Teachers in ECE (3) (I.D.)
GenEd (II.A.1)	Elective (4)*

*Biology, chemistry, computer science, math, physical science or physics elective

Semester 6 (15 credit hours)

ECED 341	Preprimary Curriculum (4)
ECED 360	Early Literacy: Best Practices and Materials (3)
ARED 373	Art for ECE (2)
KNES 324	Teaching Physical Education in Elementary School (2)
MUED 304	Methods of Teaching Music in ECE (2)
SCIE 371	Teaching Science in Early Education (2)

Semester 7 (16 credit hours)

ECED 342	Primary Curriculum (4)
ECED 361	Teaching Reading in ECE (3)
ECED 429	Principles and Practices of Reading and Language Arts Assessment (3)
MATH 321	Teaching Mathematics in ECE (3)
ECED 417	Assessment and Early Identification of Learning Disabilities (3)

Semester 8 (12 credit hours)

ECED 351	Student Teaching Internship: Primary (6)
ECED 352	Student Teaching Internship: Preschool (6)

STUDENT TEACHING SEMESTER

A maximum of 18 credits may be taken during the student teaching semester.

TRANSFER STUDENT POLICIES

A minimum of 25 credits in the major must be completed at TU. SPED 301, Introduction to Special Education, is transferable from certain institutions only. Students should contact their adviser for more information. Students are required to take the final 30 credit hours in residence at TU.

OUTCOMES

The Early Childhood Education Teacher Education program utilizes the Interstate New Teachers Assessment and Support Consortium (INTASC) standards, Maryland's Essential Dimensions of Teaching, and the Standards of the National Association on the Education of Young Children as the performance-based outcomes for all teacher candidates.

MASTER OF ARTS IN TEACHING — EARLY CHILDHOOD EDUCATION

Director: Edyth Wheeler
Hawkins Hall 107J, 410-830-2460

A Master of Arts in Teaching program is designed to prepare especially qualified students for teaching certifications in Pre-kindergarten through grade 3.

**Department of
Elementary Education**

Professors: Bess Altwerger, Karen Robertson (*Chair*), Robert Smith

Associate Professors: Gregory Bryant, Lynn Cole, Roxanna Dellavecchia (*Graduate Director*), Linda Emerick, Nechie King, Scot Thomson

Assistant Professors: Robert Blake, Lijun Jin, Bonnie Mackey, Jane Neapolitan, April Nauman

Lecturers: Ann Eustis, Barbara Maestas, Sue Rathbone

Instructional Facilitator: Pamela Morgan

Part-time Faculty: Barbara Ellis, Gloria Evangelisti, Kay Hannan, Shirley Harden, Ann T. Jones, Thomas Keeley, Debora Lang, Richard Metzgar, Marilyn Nicholas, Carole Powell, Cinda Raley, Ann Ramsey, Fred Ray, Donald Setzer, Carol Slizys, Alison Traxler

OFFICE

Hawkins Hall 100A, 410-830-2176
Undergraduate Information: 410-830-2565
Graduate Information: 410-830-4251
E-mail: sgrey@towson.edu

PROGRAMS OF THE DEPARTMENT

The Department of Elementary Education offers the following programs of study: the major in Elementary Education, the major in Elementary Education with eligibility for Early Childhood certification, the major in Elementary Education with eligibility for Special Education certification, the Elementary Education major with a minor in selected disciplines, the Master of Arts in Teaching, and the Master of Education in Elementary Education. For more information about the master's programs, consult the *Graduate Catalog*.

The Elementary Education faculty believe that well-prepared elementary school teachers are facilitators of active learning. As reflective practitioners, teachers engage students in the learning process by utilizing research findings and experience-based strategies and practices to make sound, educational decisions. These decisions should be based upon an articulated education philosophy, a thorough knowledge of students' strengths and needs, and an analysis of various learning environments. The Elementary Education Program fulfills the goal of preparing such teachers through a program based on a broad liberal arts background and professional preparation, including a planned sequence of courses and field experiences in the Baltimore metropolitan area.

The major in Elementary Education leads to certification to teach grades one through six, through grade eight in the middle schools organization, and grade nine provided content requirements for secondary certification are met. The program provides classroom and laboratory experiences that prepare students for beginning teaching in elementary or middle schools.

Major in Elementary/Early Childhood Education Certification

In addition to the major in Elementary Education, students can select courses that will enable them to become certified in both Elementary and Early Childhood Education. Graduates of this program would be eligible to teach children from birth through age 13. Interested students should contact the chairs of both departments to plan their programs.

Special Education Certification

Courses leading to state certification in Special Education are available through the Department of Reading, Special Education, and Instructional Technology. State certification is generic but

age specific and requires 39 credit hours, many of which are already required for Early Childhood, Elementary or Secondary Education majors.

School Library/Media Certification

Elementary and Early Childhood Education students may acquire an additional state certification endorsement for school media center positions (Educational Media Associate, Level I) by adding 18 credit hours of certain Instructional Technology electives to their major. Interested students should consult Celestine Cheeks, Hawkins Hall, room 202.

Science and Mathematics Track

This program is for Elementary Education students with an interest in developing a specialty in science and mathematics for teaching in grades four through eight. Students may obtain an endorsement in this specialty by adding specified science, mathematics and interdisciplinary electives to their major. Interested students should contact Katherine Denniston, Center for Science and Mathematics Education (CSME), 410-830-2532.

Elementary Education, Education Major with a Minor

Elementary majors may complete programs with minors in other selected disciplines by arrangement with the chair of Elementary Education and the chair of the other department.

Elementary Education Major/Mathematics Minor

Through a cooperative program between the departments of Elementary Education and Mathematics, students can use a middle school student teaching experience as a route to elementary certification with a mathematics minor. Interested students should consult with the chairs of both departments as early in their college program as possible.

PRE-ADMISSION REQUIREMENT FOR ALL CANDIDATES

Students interested in becoming Elementary Education majors must first gain admission to Towson University. *Admission to the university does not guarantee admission to the Elementary Education major.*

All students applying for admission to the undergraduate Elementary Education Program must fulfill the following requirements:

A. Declaration of Intent

1. completion of Declaration of Intended Major (PELE) Form and assignment of adviser, Center for Applied Skills in Education (CASE) Office, Hawkins Hall, room 302, during the first two weeks of the semester
2. All students applying for admission to a Teacher Education program at Towson University are required to complete a Criminal Background Disclosure Form. This form is to be notarized and sent to the director of CASE to be kept on file.
3. completion of the Application to the Elementary Education Program Form. The application form must be completed during students' initial meeting with their adviser and returned to the department office (Hawkins Hall, room 100A).

B. Prerequisites for Admission to Professional Education Sequence

The following prerequisites for admission must be met in the semester prior to scheduled entrance into the professional education sequence:

1. junior status (60 credits) upon beginning the professional education sequence. Application for admission occurs during the semester prior to beginning the elementary education program (45 credits). Students should have no more than two courses (6-7 credit hours) remaining in general education courses at the time of application to the ELED program.

2. overall Quality Point Average of 2.75, including transfer QPA. Transfer grades are part of the eligibility screening to enter the program.

3. completion of speech and hearing screenings

4. Completion of ENGL 102 (or equivalent course) with a grade equivalent of 2.00 or higher.

5. With the elimination of the National Teachers Examination (NTE) Core Battery Tests, effective June, 2000, all teacher candidates who have not taken and passed the General Knowledge and Communication Skills sections of the NTE will be required to submit qualifying scores on the Praxis I Academic Skills Assessment to the CASE Office for admission to the program. Information on the Praxis tests is available in the CASE Office, Hawkins Hall, room 302.

Effective fall 1999, all preservice students in teacher education programs at Towson University whose program of study requires an intensive and extensive internship or student teaching experience in a public or private school setting (pre-K through 12) will be required to undergo a criminal background check before beginning this experience.

SCREENING

All candidates for the undergraduate program may be ranked according to cumulative Quality Point Average in all college or university courses (transfer QPA and/or Towson QPA). The number of students admitted during any given semester is determined by the number of seats available in introductory courses which, in turn, is determined by available faculty resources.

TRANSFER STUDENTS

The Elementary Education major is extremely competitive, and the number of seats available each semester is limited. Therefore, only transfer students who are eligible for admission to the major and who have submitted their transcripts by the priority deadlines established by the department (March 1 for fall registration and November 1 for spring registration) will be included in the rank-order pool of applicants. **NOTE: Transfer students are not exempt from meeting the above prerequisites.**

AFFIRMATIVE ACTION POLICY

Towson University does not discriminate on the basis of race, national origin, religion, color, sex, age, sexual orientation, or condition of handicap in its academic program. Some groups, however, have been historically under-represented in the teaching profession.

The department will consider appeals to waive the QPA or Praxis requirement on an individual basis, if it is demonstrated that such requirements have an inequitable impact on the minority student population.

MAJOR IN ELEMENTARY EDUCATION

To meet both the college and Maryland state certification requirements, students must complete 67 hours in the arts and sciences, at least 59 hours in professional education courses of which a minimum of 21 must be taken at Towson, and electives to make a total of at least 126 credits. Students must maintain an overall quality point average of 2.75 or higher, and a 3.00 in courses for the major.

For admission to student teaching, students in Elementary Education must complete a minimum of 90 credits.

Students should consult with their advisers before taking courses on a Pass grading option. Courses in the major and courses required for Maryland State Department of Education certification must not be taken with this option.

Exceptions, changes, waivers, and/or substitutions from the program pattern for Elementary Education majors, in content or sequence of professional education courses, are permitted only

with the written consent of the chairperson of the Elementary Education department.

Requirements for the Major

Students must complete the following university and departmental required courses.

Students must take prerequisite courses in Art, Music and Physical Education and at least one methods course in one of these three special areas (ARED 371 or MUED 305 or KNES 324).

All content, methods and elective courses must be completed prior to student teaching.

Outcomes

The Department of Elementary Education has adopted the *Interstate New Teacher Assessment and Support Consortium* (INTASC) principles as its performance-based outcomes for its programs.

REQUIRED UNIVERSITY AND DEPARTMENTAL COURSES

Academic Content

- I. **English (12 semester hours)**
 - ENGL 102 Writing for a Liberal Education (I.A)
 - ENGL xxx Choose one ENGL course from GenEd II.C.3.
 - ENGLxxx Advanced Composition (I.D)*
 - ENGLxxx Elective
- II. **Social Studies (15 semester hours)**
 - GEOG 102 World Regional Geography (II.D)
 - or
 - GEOG 105 Geography of International Affairs (II.D)
 - HIST 145 History of the U.S. to the Mid-19th Century (II.B.1.)
 - or
 - HIST 146 History of the U.S. since the Mid-19th Century (II.B.1)
 - HISTxxx Elective
 - HISTxxx Elective
 - POSC 103 American National Government (II.B.2)
 - or
 - SOCI 101 Introduction to Sociology (II.B.2)
- III. **Science (8 semester hours)**
 - BIOL 110 Contemporary General Biology (II.A.1)
 - PHSC 101 Physical Science I (II.A.1)
- IV. **Mathematics (12 semester hours)**
 - MATH 204 Math Concepts and Structures I
 - MATH 205 Math Concepts and Structures II (I.C.)
 - MATH 251 Elements of Geometry
- V. **Art (3 semester hours)** (Choose one course from GenEd I.E.)
- VI. **Music (3 semester hours)**
 - MUSC 101 Intro to Music of the Western Heritage (II.C.1)
- VII. **Physical Education (2 semester hours)**
 - KNES 281 Physical Education for ELED Students I
 - KNES 282 Physical Education for ELED Students II
- VIII. **Additional Required Courses**
 - ISTC 201 Using Information Effectively in Education (I.B.)
 - Choose one course from GenEd II.B.3.
 - PSYC 101 Introduction to Psychology (II.C.2)
 - PSYC 201 Educational Psychology

Refer to the explanation of the General Education requirements in the section titled **University Curriculum**.

*Must be taken at Towson University

Professional Education

- EDUC 401 Foundations of Education (3)
- EDUC 417 Children's Literature and Other Materials for Reading and Language Arts in Elementary School (3)
- ELED 311 Child and Elementary School Curriculum (3)
- ELED 322 Foundations of Reading and Other Language Arts (3)
- ELED 323 Principles and Practices of Instruction in Reading and Language Arts in Elementary School (3)
- ELED 363 Field Studies for Elementary Teaching (3)
- ELED 365 Teaching Social Studies in the Elementary School (3)
- ELED 429 Principles and Practices of Assessment in Reading and Language Arts (3)
- ELED 468 Student Teaching in the Elementary School (12)
- ELED 469 Student Teaching Seminar (3)
- SPED 301 Introduction to Special Education (3)
- BIOL 303 Life Sciences (3)
- PHSC 303 Earth-Space Science (3)
- MATH 323 Teaching Mathematics in Elementary Schools (3)
- MATH 324 Supervised Observation and Participation in Elementary School Mathematics (2)
- SCIE 376 Teaching Science in Elementary Schools (3)
- ARED 371 Art and the Child (3)
- or
- KNES 324 Teaching Physical Education in Elementary School (2)
- or
- MUED 305 Methods of Teaching Music in Elementary School (2)

Electives

Electives are needed to meet the required total of 126 semester hours. Professional Education or Arts and Sciences courses are recommended.

Required Professional Education Sequence

<u>First Semester</u>	<u>Third Semester</u>
ELED 321*	ELED 311*
ELED 323*	ELED 365*
ELED 363*	ELED 429*
EDUC 417*	ARED 371 or
SPED 301**	KNES 324 or
	MUED 305**
	EDUC 401**
<u>Second Semester</u>	<u>Fourth Semester</u>
BIOL 303*	ELED 468*
PHSC 303*	ELED 469*
MATH 323*	
MATH 324*	
SCIE 376*	

NOTE: EDUC 401, 417, and SPED 301 must be taken prior to ELED 468/469.

*Must be taken in prescribed sequence.

**Strongly recommended to be taken in prescribed sequence.

Department of Reading, Special Education and Instructional Technology

Professors: Paul Jones (*Chair*), Deborah Gartland, Robert Wall
Associate Professors: Karen Blair, Celestine Cheeks

Assistant Professors: Poonam Arya, Evelyn Dailey, Darlene
Fewster, Maya Kalyanpur, Barbara Laster,
Leping Liu, Amy Pleet, Paulette Robinson, William Sadara,
David Wizer

Lecturers: Steve Boone, Suzanne Bourdess, Bonnie Daniel,
Nancy Levy, Robert McLaughlin, Sharon Pitcher, Patricia
Ryan, Cheryl Wood

*Director of the Educational
Technology Center:* Deborah Fuller

OFFICE

Hawkins Hall 207, 410-830-4384, or 410-830-2576

PROGRAMS OF THE DEPARTMENT

The Department of Reading, Special Education and Instructional Technology is responsible for courses that are not limited to a single teacher education program. The education course listings include core education courses that provide knowledge and skills for general application in teaching and training areas. The instructional technology and special education offerings also have K-12 applications.

The department coordinates the reading programs and the Reading Center, Developmental Reading courses, Special Education, and Instructional Technology. Graduate programs include the Master of Arts in Teaching and the master's programs in Reading and Instructional Technology.

SCHOOL MEDIA, LIBRARY INFORMATION SERVICES AND INSTRUCTIONAL TECHNOLOGY

Elective courses in Instructional Technology allow students of any major to develop media design, production and utilization competencies for business, government, nonprofit and educational settings.

SCHOOL LIBRARY MEDIA CERTIFICATION

Coordinator: Celestine Cheeks, Hawkins Hall 204A

Students who major in Early Childhood, Elementary or Secondary Education may qualify for Maryland State Certification for school librarian or media center positions (Education Media Associate, Level I).

These courses are required in the concentration:

PSYC 201	Educational Psychology (3)
SCED 319	Survey of Educational Programs (3)
	or
SCED 341	Principles of Secondary Education (4)
ISTC 301	Utilization of Instructional Media (3)
ISTC 302	Design and Production of Instructional Materials (3)
ISTC 311	Media Center Administration (3)
ISTC 313	Evaluation and Selection of Media (3)
ISTC 441	Computer Technology and Utilization (3)
ISTC 471	Reference and Information Sources (3)
ISTC 473	Cataloging and Classification of Media (3)
ELED 323	Teaching Reading in the Elementary School
	or
SCED 460	Teaching Reading in the Secondary School (3)
EDUC 417	Children's Literature and Other Materials for Reading and Language Arts in Elementary School (3)
	or
SCED 419	Young Adult Literature (3)
SPED 301	Introduction to Special Education (3)
ISTC 475	Methods for Media Personnel in the Elementary School (2)

ISTC 477	Methods for Media Personnel in the Secondary School (2)
ISTC 397	Student Teaching: The Media Center in the Elementary School (6)
ISTC 398	Student Teaching: The Media Center in the Secondary School (6)

NOTE: To complete this M.S.D.E. approved certification program, students must comply with the requirements of the Teacher Education Executive Board for Undergraduate Teacher Certification Programs.

GRADUATE STUDY IN INSTRUCTIONAL TECHNOLOGY

Director: David Wizer

Hawkins Hall 103B, 410-830-6268

The Department of Reading, Special Education and Instructional Technology offers a comprehensive graduate program which prepares professionals for careers in the instructional media field. The Instructional Development Concentration is intended for those who wish to prepare for training and media positions in business, community and governmental settings. The School Library Media Concentration is intended for the person who plans to direct a School Library Media Center operation. Persons holding this degree are eligible for certification by the Maryland State Department of Education as an Educational Media Generalist (Level II). The Educational Technology Track is designed for those who wish to integrate technology into classroom teaching, or to coordinate the planning and integration of educational technologies at the school, district or state level. See the *Graduate Catalog* for details.

MAJOR IN SPECIAL EDUCATION

Infant/Primary Track

Director: Maya Kalyanpur

Hawkins Hall 409, 410-830-3122

Students majoring in Special Education complete the Infant/Primary Track (birth-grade 3). To meet the requirements of the College of Education and the Maryland State Department of Education, students must complete at least 74 credits from the following list of university and departmental courses and at least 60 credits in professional education courses and electives to earn a total of 131 credits. Students must maintain an overall cumulative Quality Point Average (QPA) of 2.75 or higher and a 3.00 QPA or higher in courses for the major.

Secondary/Adult Track

Director: Evelyn Dailey

Hawkins Hall 402A, 410-830-3835

Students majoring in Secondary Special Education complete the Secondary/Adult Track (grade 6-adult). To meet the requirements of the College of Education and the Maryland State Department of Education, students must complete all required General Education courses required for their concentration. Students must maintain an overall cumulative Quality Point Average (QPA) of 2.75 or higher and a 3.00 QPA or higher in courses for their major.

Special Education majors should meet with their advisers every semester to ensure that their planned programs of study meet university, major and Maryland State Department of Education certification requirements. Students must consult with their advisers prior to taking courses on a Pass grading option. Courses in the major and courses required for Maryland State Department of Education certification must not be taken with this option.

Exceptions, changes, waivers, and/or substitutions from the program pattern for Special Education majors in content or sequence are permitted only with the written consent of the director of the Special Education Program.

Pre-Admission Requirements for all Candidates

Students interested in majoring in Special Education must first gain admission to Towson University. Admission to the

university, however, does not guarantee admission to the Special Education major. Students must then complete a Declaration of Intended Major Form available through the Center for Applied Skills in Education (CASE) Office, Hawkins Hall, room 302, at which time they will be assigned a Special Education adviser. All students applying for admission to a Teacher Education program at Towson University are required to complete a Criminal Background Disclosure Form. This form is to be notarized and sent to the director of CASE to be kept on file.

Screening

Special Education is a screened major. All candidates for the Special Education major may be ranked according to cumulative grade point average in all college or university courses (transfer QPA and/or TU QPA). The number of students admitted during any given semester is determined by the number of seats available in courses which, in turn, is determined by available faculty resources.

To receive approval for admission, students are required to:

1. pass a speech and hearing screening
2. have a cumulative QPA of 2.75 or higher (which includes grades transferred and grades earned at TU)
3. have completed ENGL 102 with a grade equivalent of 2.00 or higher
4. have completed 60 or more credits
5. have scores on the Praxis I at or above the level of standards established by the Maryland State Department of Education. (With the elimination of the National Teachers Examination (NTE) Core Battery tests, effective November 22, 1998, all teacher candidates who have not taken or passed the General Knowledge and Communication Skills sections of the NTE will be required to submit qualifying scores on the Praxis I Academic Skills Assessments to the CASE office for admission to the program. Information on the Praxis tests is available in the CASE Office, Hawkins Hall, room 302.)

Screening occurs again for admission into student teaching. Students are required to have a cumulative QPA of 2.75 or higher and a QPA of 3.00 or higher in the major and must have completed a minimum of 90 credits. Effective fall 1999, all preservice students in Teacher Education programs at Towson University whose program of study requires an intensive and extensive internship or student teaching experience in a public or private school setting (pre-K through 12), will be required to undergo a criminal background check before beginning this experience. The criminal background check must be filed with the director of CASE.

Transfer Students

The Special Education Program personnel are responsive to the transfer student and will accept those credits which are compatible with the General Education (GenEd) requirements, Special Education major and state certification requirements. Please note, although credits might qualify toward graduation, only an evaluation conducted by the special education director will determine which credits will also apply toward the major. Students must first have their transcripts evaluated by the Office of Admissions before requesting a special education transcript evaluation.

REQUIRED UNIVERSITY AND DEPARTMENTAL COURSES IN INFANT/PRIMARY TRACK

Academic Content

Courses taken before formal admission to the professional education sequence.

- I. English (9 semester hours)
 - (I.A) ENGL 102 Writing for a Liberal Education (3)
 - (II.C.3) ENGL xxx * Choose an English course from II.C.3 (3)
 - ENGL xxx Elective (3)

- II. Social Studies (9 semester hours)
 - (II.D) GEOG 102 World Regional Geography (3)
 - or GEOG 105 Geography of International Affairs (3)
 - (II.B.1) HIST 145 History of the U.S. to the Mid-19th Century (3)
 - or HIST 146 History of the U.S. since the Mid-19th Century (3)
 - (II.B.2) SOC1 101 Introduction to Sociology (3)
- III. Science (8 semester hours)
 - (II.A.1) BIOL 110 Contemporary General Biology (4)
 - (II.A.1) PHSC 101 Physical Science I (4)
- IV. Mathematics (12 semester hours)
 - MATH 204 Math Concepts and Structures I (4)
 - (I.C.) MATH 205 Math Concepts and Structures II (4)
 - MATH 251 Elements of Geometry (4)
- V. Art (3 semester hours)
 - (I.E) ART xxx *Choose one art course from I.E. (3)
- VI. Music (3 semester hours)
 - (II.C.1) MUSC 101 Introduction to Music of Western Heritage (3)
- VII. Psychology (6 semester hours)
 - (II.C.2) PSYC 101 Introduction to Psychology (3)
 - PSYC 201 Educational Psychology (3)
- VIII. Additional Required Courses (15 semester hours)
 - (I.B.) ISTC 201 Using Information Effectively in Education (3)
 - ISTC 301 Utilization of Instructional Media (3)
 - (II.B.3) HLTH 101 Wellness for a Diverse Society (3)
 - or SPPA 205 Basic Sign Language (3)
 - ECED 215 Intervention and the Young Child (3)
 - (I.D.) EDUC 301 Writing and Communication Skills for Teachers (3)
 - or ECED 422 Writing Techniques for Teachers in Early Childhood Education (3)

*Refer to the explanation of the General Education requirements in this catalog.

Professional Education Courses (66 credits)

First Semester (16 semester hours)

- | | |
|----------|--|
| SPED 301 | Introduction to Special Education (3) |
| MATH 321 | Teaching Math in Early Childhood Education (3) |
| ECED 321 | Foundations of Reading and Language Arts (3) |
| ECED 315 | Infant Intervention (3) |
| SCIE 371 | Teaching Science in Early Childhood (2) |
| MUED 304 | Methods of Teaching Music in Early Childhood (2) |

Second Semester (17 semester hours)

- | | |
|----------|--|
| ECED 361 | Teaching Reading in Primary Grades (3) |
| ECED 429 | Principles and Practices of Reading (3) |
| ARED 373 | Art for Early Childhood Education (2) |
| ECED 360 | Early Literacy Practice and Materials (3) |
| SPED 415 | Assessment of Infant/Primary Students w/Disabilities (3) |
| or | |
| ECED 417 | Early Identification (3) |
| SPED 429 | Curriculum/Methods of Classroom Management for Students w/Disabilities (3) |

Third Semester (15 semester hours)

- | | |
|----------|--|
| SPED 413 | Assistive Technology (3) |
| SPED 425 | Formal Tests and Measurements for Students w/Disabilities (K-12) (3) |
| SPED 428 | Working with Families of Students w/Disabilities (3) |
| SPED 441 | Curriculum/Methods of Instruction for Students w/Disabilities (K-12) (3) |
| SPED 497 | Internship: Students w/Disabilities in Infant/Primary Programs (3) |

Teacher Candidate (15 semester hours)

- | | |
|----------|--|
| SPED 498 | Student Teaching: Special Education (12) |
| SPED xxx | Student Teaching Seminar (3) |

Electives (3 semester hours)

SPED 430	Informal Test and Measurements for Students w/ Disabilities (K-12) (3)
SPED 417	Collaboration for Infant/Primary Programs (3)
SPED 431	Curriculum/Method of Reading for Primary Students w/ Disabilities (3)
KNES 423	Adaptive Physical Education (3)

REQUIRED UNIVERSITY AND DEPARTMENTAL COURSES IN SECONDARY/ADULT TRACK

Students majoring in Secondary Special Education must choose one of the following tracks: English, Science, Math or Social Science.

English Track: Academic Content

Courses to be taken before formal admission to the professional education sequence:

- I. English (21 semester hours)
 - (I.A.) ENGL 102 Writing for a Liberal Education (3)
 - (II.C.1) ENGL 221 British Literature to 1798 (3)
 - or
 - ENGL 222 British Literature since 1798 (3)
 - (II.C.3) ENGL 233 Survey of African-American Literature (3)
 - or
 - ENGL 235 Ethnic-American Literature (3)
 - ENGL 230 Main Currents in American Literature (3)
 - or
 - ENGL 236 American Indian Literature 1772-Present (3)
 - ENGL 251 Applied Grammar (3)
 - ENGL 283 Introduction to Creative Writing (3)
 - or
 - ENGL 311 Writing Poetry (3)
 - or
 - ENGL 312 Writing Fiction (3)
 - ENGL 361 Literary Research and Applied Criticism (3)
- II. Social Studies (9 semester hours)
 - (II.D) GEOG 102 World Regional Geography (3)
 - or
 - GEOG 105 Geography of International Affairs (3)
 - (II.B.1) HIST 145 History of the US to the Mid 19th Century (3)
 - or
 - HIST 146 History of the US since the Mid 19th Century (3)
 - (II.B.2) SOCI 101 Introduction to Sociology (3)
- III. Science (8 semester hours)
 - (II.A.1) BIOL 110 Contemporary General Biology (4)
 - (II.A.1) PHSC 101 Physical Science I (4)
- IV. Mathematics (7 semester hours)
 - (I.C) MATH 111 Algebra for Applications (3)
 - MATH 251 Elements of Geometry (3)

V. Art (3 semester hours)

Select one:

ART 102	Design for Non-Art Majors (3)
ART 106	Drawing for Non-Art Majors (3)
ART 107	Ceramics for Non-Art Majors (3)
ART 109	Sculpture for Non-Art Majors (3)
ART 113	Painting for Non-Art Majors (3)
ART 126	Fabric Design for Non-Art Majors (3)

VI. Psychology (6 semester hours)

(II.C.2) PSYC 101	Introduction to Psychology (3)
PSYC 201	Educational Psychology (3)

VII. Additional Required Courses (12 semester hours)

(I.B) ISTC 201	Using Information Effectively in Education (3)
(II.B.3) COMM 131	Fundamentals of Speech Communication (3)
(I.D) EDUC 301	Writing and Communication Skills for Teachers (3)
ISTC 301	Utilization of Instructional Media (3)

Required Professional Education Courses

EDUC 401	Foundations of Education (3)
PSYC 203	Human Growth and Development (3)
PSYC 404	Adolescent Psychology (3)
SPED 301	Introduction to Special Education (3)
SPED 413	Assistive Technology for Students w/Disabilities (3)
SPED 425	Formal Tests and Measurements for Students w/ Disabilities (3)
SPED 428	Working with Parents of Students w/ Disabilities (3)
SPED 429	Classroom Management (3)
SPED 430	Informal Tests and Measurements for Students w/Disabilities (3)
SPED 453	Curriculum and Measurement of Secondary Special Education (3)
SPED 455	Assessment of Middle and High School Students w/Disabilities (3)
SPED xxx	Student Internship I (3)
SPED 498	Student Internship II (Student Teaching) (12)
SCED 341	Principles of Secondary Education (3)
SCED 357	Teaching English in Secondary Education (3)
SCED 419	Young Adult Literature (3)
SCED 460	Using Reading and Writing in Secondary Education (4)
SCED 461	Teaching Reading in Secondary Content Areas (3)

Science Track: Academic Content

Courses to be taken before formal admission to the professional education sequence:

- I. English (6 semester hours)
 - (I.A) ENGL 102 Writing for a Liberal Education (3)
 - (II.C.3) ENGL 233 Survey of African-American Literature (3)
 - or
 - ENGL 235 Ethnic-American Literature (3)
- II. Social Studies (9 semester hours)
 - (II.D) GEOG 102 World Regional Geography (3)
 - or
 - GEOG 105 Geography of International Affairs (3)
 - (II.B.1) HIST 145 History of the US to the Mid-19th Century (3)
 - or
 - HIST 146 History of the US since the Mid-19th Century (3)
 - (II.B.2) SOCI 101 Introduction to Sociology (3)
- III. Science (22 semester hours)
 - (II.A.1) BIOL 201 Biology I: Cellular Biology and Genetics (4)
 - (II.A.1) PHSC 101 Physical Science I (4)
 - GEOG 121 Physical Geology (4)
 - PHSC 303 Earth-Space Science (3)
 - CHEM 101 General Chemistry I (3)
 - BIOL 115 Biological Science I (3)
- IV. Mathematics (7 semester hours)
 - (I.C) MATH 111 Algebra for Applications (3)
 - MATH 119 Pre-Calculus (4)

V. Art (3 semester hours)

Select one:

ART 102	Design for Non-Art Majors (3)
ART 106	Drawing for Non-Art Majors (3)
ART 107	Ceramics for Non-Art Majors (3)
ART 109	Sculpture for Non-Art Majors (3)
ART 113	Painting for Non-Art Majors (3)
ART 126	Fabric Design for Non-Art Majors (3)

VI. Music (3 semester hours)

MUSC 101	Introduction to Music of the Western Heritage (3)
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VII. Psychology (6 semester hours)

(II.C.2) PSYC 101	Introduction to Psychology (3)
PSYC 201	Educational Psychology (3)

VIII. Additional Required Courses (12 semester hours)

(I.B) ISTC 201	Using Information Effectively in Education (3)
(II.B.3) COMM 131	Fundamentals of Speech Communication (3)
(I.D) EDUC 301	Writing and Communication Skills for Teachers (3)
ISTC 301	Utilization of Instructional Media (3)

Required Professional Education Courses

EDUC 401	Foundations of Education (3)
PSYC 203	Human Growth and Development (3)
PSYC 404	Adolescent Psychology (3)
SPED 301	Introduction to Special Education (3)
SPED 413	Assistive Technology for Students w/Disabilities (3)
SPED 425	Formal Tests and Measurements for Students w/Disabilities (3)
SPED 428	Working with Parents of Students w/Disabilities (3)
SPED 429	Classroom Management (3)
SPED 430	Informal Tests and Measurements for Students w/Disabilities (3)
SPED 453	Curriculum and Measurement of Secondary Special Education (3)
SPED 455	Assessment of Middle and High School Students w/Disabilities (3)
SPED xxx	Student Internship I (3)
SPED 498	Student Internship II (Student Teaching) (12)
SCED 341	Principles of Secondary Education (3)
SCED 419	Young Adult Literature (3)
SCED 460	Using Reading and Writing in Secondary Education (3)
SCED 461	Teaching Reading in Secondary Content Areas (3)
SCIE 380	Teaching Science in Secondary Education (3)

Math Track: Academic Content

Courses to be taken before formal admission to the professional education sequence:

- I. English (6 semester hours)
 - (I.A.) ENGL 102 Writing for a Liberal Education (3)
 - (II.C.3) ENGL 233 Survey of African-American Literature (3)
 - or
 - ENGL 235 Ethnic-American Literature (3)
- II. Social Studies (9 semester hours)
 - (II.D) GEOG 102 World Regional Geography (3)
 - or
 - GEOG 105 Geography of International Affairs (3)
 - (II.B.2) SOCI 101 Introduction to Sociology (3)
 - (II.B.1) HIST 145 History of the US to the Mid-19th Century (3)
 - or
 - HIST 146 History of the US since the Mid-19th Century (3)
- III. Science (8 semester hours)
 - (II.A.1) BIOL 110 Contemporary General Biology (4)
 - (II.A.1) PHSC 101 Physical Science I (4)
- IV. Mathematics (22 semester hours)
 - (I.C) MATH 111 Algebra for Applications (3)
 - MATH 119 Pre-Calculus (4)
 - MATH 206 Number Systems and Functions (4)
 - MATH 207 Quantitative and Geometric Reasoning (4)
 - MATH 231 Basic Statistics (3)
 - MATH 251 Elements of Geometry (4)
- V. Art (3 semester hours)

Select one:

 - ART 102 Design for Non-Art Majors (3)
 - ART 106 Drawing for Non-Art Majors (3)
 - ART 107 Ceramics for Non-Art Majors (3)
 - ART 109 Sculpture for Non-Art Majors (3)
 - ART 113 Painting for Non-Art Majors (3)
 - ART 126 Fabric Design for Non-Art Majors (3)
- VI. Music (3 semester hours)
 - MUSC 101 Introduction to Music of Western Heritage (3)
- VII. Psychology (6 semester hours)
 - (II.C.2) PSYC 101 Introduction to Psychology (3)
 - PSYC 201 Educational Psychology (3)
- VIII. Additional Required Courses (12 semester hours)
 - (I.B) ISTC 201 Using Information Effectively in Education (3)
 - (II.B.3) COMM 131 Fundamentals of Speech Communication (3)
 - (I.D) EDUC 301 Writing and Communication Skills for Teachers (3)
 - ISTC 301 Utilization of Instructional Media (3)

Required Professional Education Courses

EDUC 401	Foundations of Education (3)
MATH 423	Teaching Math in Secondary Education (3)
PSYC 203	Human Growth and Development (3)
PSYC 404	Adolescent Psychology (3)
SPED 301	Introduction to Special Education (3)
SPED 413	Assistive Technology for Students w/Disabilities (3)
SPED 425	Formal Tests and Measurements for Students w/Disabilities (3)
SPED 428	Working with Parents of Students w/Disabilities (3)
SPED 429	Classroom Management (3)
SPED 430	Informal Tests and Measurements for Students w/Disabilities (3)
SPED 453	Curriculum and Measurement of Secondary Special Education (3)
SPED 455	Assessment of Middle and High School Students w/Disabilities (3)
SPED xxx	Student Internship I (3)
SPED 498	Student Internship II (Student Teaching) (12)
SCED 341	Principles of Secondary Education (3)
SCED 419	Young Adult Literature (3)
SCED 460	Using Reading and Writing in Secondary Education (4)
SCED 461	Teaching Reading in Secondary Content Areas (3)

Social Science Track: Academic Content

Courses to be taken before formal admission to the professional education sequence:

- I. English (6 semester hours)
 - (I.A.) ENGL 102 Writing for a Liberal Education (3)
 - (II.C.3) ENGL 233 Survey of African-American Literature (3)
 - or
 - ENGL 235 Ethnic-American Literature (3)
- II. Social Studies (24 semester hours)
 - (II.D) GEOG 102 World Regional Geography (3)
 - or
 - GEOG 105 Geography of International Affairs (3)
 - POSC 101 Introduction to Political Science (3)
 - (II.B.1) HIST 145 History of the US to the Mid-19th Century (3)
 - HIST 146 History of the US since the Mid-19th Century (3)
 - HIST 241 History of European Civilization through the 17th Century (3)
 - HIST 242 History of European Civilization from the 17th Century (3)
 - SOCI 101 Introduction to Sociology (3)
 - ECON 201 Microeconomic Principles (3)
- III. Science (8 semester hours)
 - (II.A.1) BIOL 110 Contemporary General Biology (4)
 - (II.A.1) PHSC 101 Physical Science I (4)
- IV. Mathematics (7 semester hours)
 - (I.C) MATH 111 Algebra for Applications (3)
 - MATH 251 Elements of Geometry (4)
- V. Art (3 semester hours)

Select one:

 - (I.E) ART 102 Design for Non-Art Majors (3)
 - ART 106 Drawing for Non-Art Majors (3)
 - ART 107 Ceramics for Non-Art Majors (3)
 - ART 109 Sculpture for Non-Art Majors (3)
 - ART 113 Painting for Non-Art Majors (3)
 - ART 126 Fabric Design for Non-Art Majors (3)
- VI. Psychology (6 semester hours)
 - (II.C.2) PSYC 101 Introduction to Psychology (3)
 - PSYC 201 Educational Psychology (3)
- VII. Additional Required Courses (12 semester hours)
 - (I.B) ISTC 201 Using Information Effectively in Education (3)
 - (II.B.3) COMM 131 Fundamentals of Speech Communication (3)
 - (I.D) EDUC 301 Writing and Communication Skills for Teachers (3)
 - ISTC 301 Utilization of Instructional Media (3)

Required Professional Education Courses

EDUC 401	Foundations of Education (3)
GENL 401	Topics in Social Sciences (3)
PSYC 203	Human Growth and Development (3)
PSYC 404	Adolescent Psychology (3)
SPED 301	Introduction to Special Education (3)
SPED 413	Assistive Technology for Students w/Disabilities (3)
SPED 425	Formal Tests and Measurements for Students w/Disabilities (3)
SPED 428	Working with Parents of Students w/Disabilities (3)
SPED 429	Classroom Management (3)
SPED 430	Informal Tests and Measurements for Students w/Disabilities (3)
SPED 453	Curriculum and Measurement of Secondary Special Education (3)
SPED 455	Assessment of Middle and High School Students w/Disabilities (3)
SPED xxx	Student Internship I (3)
SPED 498	Student Internship II (Student Teaching) (12)
SCED 341	Principles of Secondary Education (3)
SCED 355	Teaching Social Studies in Secondary Education (3)
SCED 419	Young Adult Literature (3)
SCED 460	Using Reading and Writing in Secondary Education (3)
SCED 461	Teaching Reading in Secondary Content Areas (3)

SPECIAL EDUCATION CERTIFICATION

Courses leading to state certification in Special Education are available through the Department of Reading, Special Education and Instructional Technology. State certification is generic but age specific and requires a minimum of 39 credits, many of which are already required for Early Childhood, Elementary or Secondary Education majors. Students must also fulfill reading certification requirements.

GRADUATE STUDY IN READING

Director: Karen Blair

Hawkins Hall 107-H, 410-830-2348

A graduate program specifically designed to improve the teaching of reading at all age levels is available for qualified students seeking Maryland State Certification as Reading Specialist K-12. See the *Graduate Catalog* for details.

THE READING CLINIC

Director: Barbara Laster

Hawkins Hall 107F, 410-830-2558

This clinic provides diagnostic and remediation services in reading and writing for students of all ages. It provides practicum experiences for graduate students in the master's degree program in Reading while providing assistance to individuals in the community with reading problems.

THE LITERACY CLINIC

Director: Barbara Laster

Hawkins Hall 107F, 410-830-2558

Volunteer tutors receive training and supervision from master teachers. The Clinic is held on campus and provides assistance to children from the surrounding community. Tutors are Towson students, staff or community members.

DEVELOPMENTAL READING

Director: L. Steven Boone

Hawkins Hall 206, 410-830-3697

Remediation in reading skills is provided for Towson students through the Developmental Studies courses in reading scheduled by the Department of Reading, Special Education and Instructional Technology. See competency requirements for entering students under **Undergraduate Admissions**. Informational sessions for the Praxis are also conducted.

**Department of
Secondary Education**

Professors: James Lawlor (*Chair and Graduate Director*),

Dennis Hinkle, Gloria Neubert, David Vocke

Associate Professors: Christopher Blake, Lawrence Leak

Affiliate Professor: Thomas Proffitt

Assistant Professors: Cynthia Hartzler-Miller, Elizabeth Wilkins-Canter

Affiliate Instructor: Deborah Piper

Part-time Faculty: James Binko, James Bowerman, John Harrison, Robert Huber, Michael Jessup, Rita Karr, Charles Livingston, Janet Newberry, Thomas Schaefer, Craig Spilman, Donald Wesley, Linda Yienger, Ed Zenker, Stephanie Zenker

Lecturer: Sally McNelis

OFFICE

Hawkins Hall 405K, 410-830-2562

PROGRAMS OF THE DEPARTMENT

The Department of Secondary Education offers 12 certification programs in the secondary subject areas of Biology, Chemistry, English, French, Geography, General Science, German, History, Mathematics, Physics, Social Science and Spanish.

Programs for teaching kindergarten through grade 12 in Art, Dance, Health, Library/Media, Music and Physical Education are offered by these academic departments.

All Teacher Education programs are approved by the Maryland State Department of Education. Upon graduation in one of these programs, students are eligible for certification to teach in Maryland.

The programs of education for junior, middle and high school teachers are designed to bring about close integration between teaching methods and the practical experience of observation and student teaching. Students are required to file a Declaration of Intention Form. A Secondary Education adviser is required in addition to an adviser in the major for the following majors: English Education, Geography Education, History Education, Mathematics Education, Modern Language Education, Science Education or Social Science Education. For information, go to Hawkins Hall, room 405K.

FORMAL ADMISSION TO THE PROGRAM

Formal admission into the Secondary Education Program occurs when students have met the following criteria:

1. completion of at least 45 college credits
2. completion of a written application, including an essay
3. a 2.50 cumulative average for all postsecondary institutions attended (submit original transcripts)
4. successful completion of the Praxis I—Academic Skills Assessment: Reading, Writing and Mathematics (With the elimination of the National Teachers Examination (NTE) Core Battery Tests, effective November 22, 1998, all teacher candidates who have not taken or passed the General Knowledge and Communication Skills sections of the NTE will be required to submit qualifying scores on the Praxis I Academic Skills Assessments to the Center for Applied Skills in Education (CASE) Office for admission to the program. Information on the Praxis tests is available in the CASE Office, Hawkins Hall, room 302.)
5. All students applying for admission to a Teacher Education Program at Towson University are required to complete a Criminal Background Disclosure Form. This form is to be notarized and sent to the director of CASE to be kept on file.

Once these program admission requirements are met, students are permitted to enroll in Principles of Secondary Education and Using Reading and Writing in the Secondary School. Prior to program admission, students are permitted to take only Educational Psychology, Introduction to Special Education, K-12, and Utilization of Instructional Media.

Along with application for formal admission to the program, students must arrange to take the required Praxis I tests. *Praxis I tests must be taken and passed prior to admission to the program.* In some cases, supplementary work may be required of students who fail to demonstrate adequate reading, writing and mathematics competencies. Information on Praxis testing is available in the CASE Office (Hawkins Hall, room 302). *Students must secure approval for student teaching from the department; it is contingent upon successful completion of the required courses, demonstration of acceptable competencies in the tested areas, and meeting quality point average requirements (see QPA Requirement for Student Teaching).*

After introductory courses in the nature of today's schools and their students and appropriate field experiences, the prospective secondary teacher enters the student teaching semester. Methods, philosophy, techniques and practice are combined to provide a thorough preparation for teaching, and such preparation must be demonstrated prior to student teaching. Also required is a course in the sociological, philosophical, and historical foundations of education.

SECONDARY TEACHER EDUCATION PROGRAM

In addition to majoring in one of the 12 subject area certification programs and satisfying the university General Education (GenEd) requirements, students must complete the professional education courses listed below.

Outcomes

All Teacher Education programs utilize *Maryland's Essential Dimensions of Teaching* or the *Interstate New Teacher Assessment and Support Consortium* principles as the performance-based outcomes for teacher candidates.

Required Professional Education Courses

A minimum grade equivalent of 2.00 or higher is required for all courses.

PSYC 201	Educational Psychology (3)
SPED 301	Introduction to Special Education (3)
ISTC 301	Utilizing Instructional Media (3)
SCED 341	Principles of Secondary Education (4)
SCED 460	Using Reading and Writing in the Secondary School (4) (taken concurrently with SCED 341 and shares a required field experience)
SCED 461	Teaching Reading in the Secondary Content Areas (3)
SCED 499	Internship in Secondary Education (3) (taken at a professional development school the semester immediately prior to student teaching with Methods of Teaching Major Subject)
SCED xxx	Methods of Teaching Major Subject (3)
EDUC 401	Foundations of Education (3)
SCED xxx	Student Teaching (12)

Additional requirements to be integrated into GenEds:

HIST 145	History of U.S. to Mid-19th Century (II.B.1) (3)
or	
HIST 146	History of U.S. since Mid-19th Century (II.B.1) (3)
COMM 131	Fundamentals of Speech Communication (II.B.3) (3)
	One Course in Non-Western Culture (3)*

*(See secondary education adviser for approved list of courses.)

Note: Some methods courses are offered spring or fall only. Check with your adviser.

Subject Major

Refer to the department under which a specific major is discussed. For instance, those interested in teaching History at the secondary level should refer to the Secondary Education Program of the Department of History for specific requirements.

REQUIREMENTS FOR STUDENT TEACHING

1. All students must meet the following QPA requirements to be admitted to student teaching: 2.75 average in major field and in professional education courses and 2.50 overall average, based on transcripts from all institutions of higher learning attended. (Consult with SCED adviser.)
2. Effective fall 1999, all preservice students in Teacher Education programs at Towson University whose program of study requires an intensive and extensive internship or student teaching experience in a public or private school setting (pre-K through 12) will be required to undergo a criminal background check before entering this experience. The criminal background check must be filed with the director of CASE.

KINDERGARTEN-12th GRADE

TEACHER EDUCATION PROGRAMS

Students may obtain certification to teach the following subjects at both the elementary and secondary levels: Art, Dance, Health, Library Media, Music and Physical Education.

Students must satisfy the GenEd requirements, the professional education courses listed below, requirements for each major listed below, and QPA requirements (see **QPA Requirement for Student Teaching**).

Required Professional Education Courses

PSYC 201	Educational Psychology (3)
SCED 319	Survey of Educational Programs (3)
SPED 301	Introduction to Special Education (3)
	Methods of Teaching Major Subject in Elementary School (3-6)
	Methods of Teaching Major Subject in Secondary School (3-6)
ELED 379	Student Teaching in Elementary School (6-8)
SCED xxx	Student Teaching in Secondary School (6-7)
EDUC 401	Foundations of Education (3)

Additional requirements to be integrated into GenEds:

HIST 145	History of U.S. to Mid-19th Century (II.B.1) (3)
or	
HIST 146	History of U.S. since Mid-19th Century (II.B.1) (3)
COMM 131	Fundamentals of Speech Communication (II.B.3) (3)
	One Course in Non-Western Culture (3)*

*(See Department of Secondary Education or major adviser for approved list of courses.)

Teacher education programs exist in the following areas:

Art Education
Dance Education
Health Education
Library Media
Music Education
Physical Education

For required courses and special program information, consult the section of this catalog dealing with each particular major.

SPECIAL EDUCATION CERTIFICATION

Courses leading to state certification in special education are available through the Department of Reading, Special Education and Instructional Technology. State certification is generic but age specific and requires 39 credits, many of which are already required for Early Childhood, Elementary or Secondary Education majors. Interested students should consult Evelyn Dailey, Hawkins Hall, room 402A, coordinator of the Special Education Program.

MASTER OF ARTS IN TEACHING—SECONDARY

Director: Debbie Piper
Hawkins Hall 209, 410-830-4935

A Master of Arts in Teaching program is designed to prepare especially qualified students for teaching certifications in grades 5-12.







The College of Fine Arts and Communication

The College of Fine Arts and Communication provides quality education in the following areas: art, art history, art education, dance performance, dance performance and education, electronic media, film, music, music education, communication studies, mass communication and theatre arts. The programs in the departments of Art, Dance, Electronic Media and Film, Music, Mass Communication and Communication Studies, and Theatre Arts stress the importance of a liberal arts education while offering specialized training and practical experience in their respective fields, enabling students to develop creative and analytical abilities.

Courses offered for both majors and non-majors enhance student understanding and appreciation of the contributions of the arts and communication to human culture. The programs provide opportunities for majors to gain the detailed knowledge, skills and experience needed to begin careers or to enter graduate programs.

The College of Fine Arts and Communication maintains facilities that assist students and faculty in activities supporting curricular offerings. These include the Center for the Arts with the Concert Hall, Mainstage Theatre, Studio Theatre, Holtzman Art Gallery, Asian Arts & Culture Center, and many rehearsal and practice rooms; art studios and computer labs; the University Union Art Gallery; Burdick Hall with facilities for dance; Stephens Hall Theatre, providing performance space for dance, opera and musicals; and Van Bokkelen Hall and the Media Center, housing journalism and photojournalism laboratories, the debate and speech facility, WTMD-FM, WTSR-AM, radio-television-film laboratories, and the television station, WMJF-TV.

Recognized as a fine arts center for Maryland, the college continues to pursue its mission to enhance communication and the fine and performing arts. The college also sponsors international exchange programs with schools in China, Germany, Korea, Russia, Italy and the United Kingdom.

The college contributes to the cultural life of Towson and the metropolitan area by offering more than 400 performances, exhibitions, film and video screenings, debates, lectures and workshops each year.

Maravene Loeschke, Dean
Charles Flippen, Associate Dean
Marilyn Schultz, Assistant to the Dean

Art
Art Education
Dance Education
Dance Performance
Communication Studies
Electronic Media and Film
Mass Communication
Music Education
Music Performance
Theatre

COLLEGE OFFICE
Center for the Arts 394B, 410-830-3288
Fax: 410-830-6026
[www.towson.edu/tu/fine arts](http://www.towson.edu/tu/fine%20arts)

Department of Art

Professors: Christopher Bartlett (*Gallery Director*), Jane Bates (*Art Education Coordinator*), James Flood, Jon Meyer (*Chair*), James Paulsen, Thomas Supensky

Associate Professors: Daniel Brown, Haig Janian (*Art Coordinator, USM Program in Italy*), Susan Isaacs (*Honors Coordinator*)

Assistant Professors: Robert Pitman, Bridget Sullivan, Stuart Stein (*MFA Coordinator*) Nora Sturges, Sandra Tatman

Lecturers: Katherine Broadwater, Tonia Matthews

Part-Time Faculty: Jocelyn Curtis, Richard Hellman, Trace Miller, Cindy Rehm

Assistant to Chair: Leslie Varga

Administrative Assistant: Susan Donley

Slide Librarian: Venetia Zachary

Community Art Center Director: Bonnie Reynolds

Director and Curator, Asian Arts & Culture Center: Suewhei Shieh

Lab Technician: Brian Dolge

OFFICE

Center for the Arts 358, 410-830-2808

www.towson.edu/art

PROGRAMS OF THE DEPARTMENT

The Department of Art offers a comprehensive program comprising the following areas of concentration: Art History, Crafts, Industrial Design (pending MHEC approval), Painting, Printmaking, Sculpture and Visual Communication/Photography. Associated with these concentrations, four degree programs are offered: the major in Art, the major in Art Education, the Master of Education in Art Education and the Master of Fine Arts. Minors are offered in Art History and Studio Art.

The Department of Art offers a comprehensive, full-semester Travel-Study Abroad Program as an integral part of the curriculum. Students register on campus but pursue art courses in a foreign locale under University System of Maryland faculty direction.

The Department of Art offers non-credit art instruction throughout the year for children and adults through the Community Art Center.

FACILITIES

The facilities available to undergraduate and graduate students are extensive. They are designed to encourage and fully support the creative endeavors of students. Each area of concentration has the equipment necessary to assure that students reach their potential.

MAJOR IN ART

Art majors must complete 66 to 72 credits in art, depending on concentration and area of focus. As part of the total number of credits, 36 credits are taken in foundations. The First Level Foundation core (18 credits) is identical for all majors. The Second Level Foundation core (18 credits) is area of focus specific. (See Second Level Foundation courses listed under separate concentrations/areas of focus.) All Art majors must successfully complete all of the first-year foundation courses listed below with a grade of at least a C before enrolling in any other art courses.

First Level Foundation (18 credits)

ART 103	Design I (3)
ART 104	Design II (3)
ART 111	Drawing and the Appreciation of Drawing I (3)
ART 211	Drawing II (3)
ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)

CRAFTS CONCENTRATION

Students may select one of three areas of focus within the Crafts Concentration: 1) Ceramics, 2) Jewelry or 3) Interdisciplinary Crafts.

Ceramics Area of Focus (66 credits)

First Level Foundation (18 credits)

Second Level Foundation (18 credits)

ART 217	Introduction to Computer Media (3)
	or
ART 2xx/3xx	Any Crafts Course
ART 229	Painting I (3)
ART 231	Ceramics I (3)
ART 241	Sculpture I (3)
ARTH 3xx/4xx	Any 300-400 Art History Course (6)

Required Courses (15 credits)

ART 309	Ceramics: Potters Wheel (3)
ART 310	Ceramics: Handbuilding (3)
ART 407	Ceramics: Clay Sculpture I (3)
ART 409	Ceramics: The Vessel (3)
ART 497	Senior Project (3)

Electives (15 credits)

ART 205	The Human Figure (3)
ART 2xx/3xx	Any Crafts Course
	or
ART 361	Computer 3-D Modeling (3)
ART 30M*	Raku (3)
ART 31M*	Ceramics: Special Topics (3)
ART 400	Ceramics: Raw Materials (3)
ART 414-416	Advanced Studio in Ceramics (3-9)

* Offered only during the Minimester

Jewelry Area of Focus (66 credits)

First Level Foundation (18 credits)

Second Level Foundation (18 credits)

ART 229	Painting I (3)
ART 241	Sculpture I (3)
ART 2xx/3xx	Any Crafts Course
	or
ART 217	Introduction to Computer Media (3)
ART 318	Jewelry I (3)
ARTH 3xx/4xx	Any 300-400-level Art History Course (6)

Required Courses (15 credits)

ART 313	Enameling I (3)
ART 319	Metalsmithing I (3)
ART 339	Metal: Concept and Process (3)
ART 418	Jewelry II (3)
ART 497	Senior Project (3)

Electives (15 credits)

ART 234	Photography I (3)
ART 2xx/3xx	Any Crafts Course (3)
ART 361	Computer 3-D Modeling (3)
ART 413	Enameling II (3)
ART 414	Advanced Studio (3)
ART 419	Jewelry III (3)
ART 439	Metalsmithing II (3)
ART 490	Internship (3)

Interdisciplinary Crafts Area of Focus**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 229	Painting I (3)
ART 231	Ceramics I (3)
ART 241	Sculpture I (3)
ART 318	Jewelry I (3)
ART 3xx	Any Fibers Course (3)
ARTH 3xx/4xx	Any 300-400 Level Art History Course (3)

Required Courses (21 credits)

ART 497	Senior Project (3)
ARTH 3xx/4xx	Any 300-400-level Art History Course (3)
Five courses selected from Jewelry, Fibers, Wood, and/or Stained Glass (15)	

Electives (9 credits)

ART 217	Introduction to Computer Media (3)
ART 234	Photography I (3)
ART 361	Computer 3-D Modeling (3)
ART 3xx/4xx	Any Advanced Level Jewelry, Metal, Ceramics, and/or Fibers Course (3)
ART 490	Internship in Art (3)
THEA 249	Mask Tradition and Design (3)

INDUSTRIAL DESIGN SCREENED**CONCENTRATION (72 credits)**

The Industrial Design Screened Concentration is pending approval of the Maryland Higher Education Commission. For further information about this program, please contact Leslie Varga, Art Department, 410-830-2808.

PAINTING CONCENTRATION

Students may select one of three areas of focus within the Painting Concentration: (1) Painting Area of Focus (2) Computer Art Area of Focus or (3) Printmaking Area of Focus.

Painting Area of Focus (66 credits)**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 205	The Human Figure (3)
ART 229	Painting I (3)
ART 236	Painting II (3)
ART 241	Sculpture I (3)
ART 2xx/3xx	Any 200-300-Level Crafts Course (3)
ARTH 3xx/4xx	Any 300-400-Level Art History Course (3)

Required Courses (15 credits)

ART 336	Painting III (3)
ART 436	Painting IV (3)
ART 497	Senior Project (3)
ARTH 324	Modern Art II (3)
ART 346	New Directions in Painting I (3)

Electives (12 credits)

ART 217	Introduction to Computer Media (3)
ART 2xx/3xx	Any 200-300-Level Crafts Course (3)
ART 234/334	Photography I,II (3,3)
ART 3xx	Printmaking (3-6)
ART 3xx/4xx	Any 300-400-Level Drawing Course (3-6)
ART 331	Watercolor I (3)
ART 360/460	Computer Art I/II (3,3)
ART 373/473	Illustration (3-6)
ART 414-416	Advanced Studio (3)
ART 431	Watercolor II (3)
ART 446	New Directions in Painting II (3)

Computer Art: Screened Area of Focus (66 Credits)

Student prerequisites and procedures for Computer Art screening:

1. QPA of 3.00 in the major and 2.67 overall
 2. The following courses must be completed by the end of the semester in which the student applies to the Computer Art Area of Focus: ART 103, ART 104, ART 111, ART 211, ART 217, ART 229, ARTH 221, ARTH 222. Students must complete these courses, or equivalent transferred courses, with at least a B- (2.67), before taking further courses in the Computer Art Area of Focus.
 3. At least a B (3.00) in ART 360
 4. A portfolio review with the Computer Art Committee: To be considered in the screening process, students must submit the following by the last day of finals in a given semester: an official transcript, a Computer Art Screening Form and a sealed 18"x24" portfolio. The portfolio must include two pieces of work from ART 103, ART 211, ART 217, ART 229, and ART 360 (a total of 10 pieces). Students who do not submit a portfolio or submit an incomplete portfolio will not be considered for the Computer Art Area of Focus at that time. Late applications will not be considered.
 5. Students not accepted may reapply twice.
- If the student's QPA falls below a 3.00 in the major or 2.67 overall, the student may have a probationary semester to get the major QPA to 3.00 and QPA to 2.67 overall.

First Level Foundation (18 credits)**Second Level Foundation (18 credits)**

ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 234	Photography I (3)
ART 236	Painting II (3)
ART 2xx	Any 200-Level Sculpture Course (3)
	or
ART 2xx/3xx	Any 200-300-Level Crafts course (3)
ARTH 3xx/4xx	Any 300-400-Level Art History Course (3)

Required Courses (27 credits)

ART 321	Computer Graphics I (3)
ART 324	Modern Art II (3)
ART 360	Computer Art I (3)
ART 361	Computer 3-D Modeling (3)
ART 3xx/4xx	Any 300-400-Level Drawing Course (3)
ART 346	New Directions in Painting I (3)
ART 460	Computer Art II (3)
ART 462	Computer Art III (3)
ART 497	Senior Project (3)

Electives (6 credits from the following)

ART 2xx	Any 200-Level 3-D or Crafts Course (3)
ART 3xx	Any 300-Level Printmaking Course (3-6)
ART 359	Digital Photography I (3)
ART 363	Computer Multimedia I (3)
ART 336	Painting III (3)
ART 373	Illustration I (3)
ART 414-416	Advanced Studio (3)
ART 421	Computer Graphics II (3)
ART 459	Digital Photography II (3)
ART 463	Computer Multimedia II (3)
ART 446	New Directions in Painting II (3)

Printmaking Area of Focus (66 credits)**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 205	The Human Figure (3)
ART 229	Painting I (3)
ART 241	Sculpture I (3)
ART 2xx/3xx	Any 200-300-Level Crafts Course (3)
ART 3xx	Any 300-Level Printmaking Course (3)
ARTH 3xx/4xx	Any 300-400-Level Art History Course (3)

Required Courses (27 credits)

ART 217	Introduction to Computer Media (3)
ART 234	Photography I (3)
ART 3xx	Any First-Level Printmaking Course (3)
ART 4xx	Any Second-Level Printmaking Course (3)
ART 402	Life Drawing/Anatomy I (3)
ART 412	Life Drawing/Anatomy II (3)
ART 497	Senior Project (3)
ARTH 324	Modern Art II (3)
ART 346	New Directions in Painting I (3)

Electives (6 credits)

ART 217	Introduction to Computer Media (3)
ART 2xx/3xx	Any 200-300-Level Crafts Sculpture Course (3) or Sculpture Course (3)
ART 234	Photography I (3)
ART 3xx	Any 300-Level Printmaking Course (3)
ART 360	Computer Art I (3)
ART 370	Special Topics in Art (3)
ART 373	Illustration I (3)
ART 4xx	Any 400-Level Printmaking Course (3)
ART 446	New Directions in Painting II (3)

SCULPTURE CONCENTRATION (66 CREDITS)**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 205	The Human Figure (3)
ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 241	Sculpture I (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)

Required Courses (15 credits)

ART 361	Computer 3-D Modeling (3)
ART 441	Advanced Sculpture II (3)
ART 443	Advanced Sculpture III (3)
ART 445	Experimental Directions (3)
ART 497	Senior Project (3)

Electives

Fifteen credits from the following:

ART 311	Wood: Concept and Process (3)
ART 318	Jewelry I (3)
ART 339	Metal: Concept and Process (3)
ART 340	Modeling: Concept and Process (3)
ART 342	Carving: Concept and Process (3)
ART 407	Ceramics: Clay Sculpture (3)

VISUAL COMMUNICATION/PHOTOGRAPHY CONCENTRATION

Students may select one of five areas of focus within the Visual Communication/Photography Concentration: 1) Graphic Design Area of Focus, 2) Illustration: Studio Media Area of Focus, 3) Illustration: Digital Area of Focus, 4) Photography: Fine and Applied Arts Area of Focus, 5) or Photography: Photographic Imaging Interdisciplinary Area of Focus.

Graphic Design: Screened Area of Focus (72 credits)

Student prerequisites and procedures for Graphic Design screening:

1. A QPA of 2.67 overall.
2. The following courses must be completed by the end of the semester in which the student applies to the Graphic Design Area of Focus: ART 103, ART 104, ART 111, ART 211, ART 217, ART 229, ARTH 221, ARTH 222. Students must complete these courses, or equivalent transferred courses, with at least a B- (2.67), before taking further courses in the Graphic Design Area of Focus.

3. A grade lower than B- (2.67) in any studio art course will eliminate the student from consideration for the Graphic Design Area of Focus.
4. Declared Art majors may apply to the Graphic Design Area of Focus at the end of their third semester of study. At the time of application, a minimum of 45 credits must have been completed, including courses from that semester. Students may apply who have earned an A.A. degree in a related major.
5. To be considered in the screening process, students must submit the following by the last day of finals in a given semester: an official transcript, a Graphic Design Screening Form and a sealed 18"x 24" portfolio. The portfolio must include two pieces of work from ART 103, ART 211, ART 217 and ART 229 (a total of eight pieces). Students who do not submit a portfolio or submit an incomplete portfolio will not be considered for the Graphic Design Area of Focus at that time. Late applications will not be considered. Students with an overall QPA of 3.50 or greater, having completed other prerequisites, and having completed a minimum of 45 credits at Towson University, are accepted on confirmation of their overall QPA and do not need to submit portfolios.
6. Students not accepted may reapply twice.
If the student's QPA falls below a 3.00 in the major or 2.67 overall, the student may have a probationary semester to get the major QPA to 3.00 and QPA to 2.67 overall.

First Level Foundation (18 credits)**Second Level Foundation (18 credits)**

ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 234	Photography I (3)
ART 241	Sculpture I (3) or Sculpture Course (3)
ART 231	Ceramics I (3) or Ceramics II (3)
ART 318	Jewelry I (3)
ART 377	Exhibit Design (3)
ARTH 324	Modern Art II (3)

Required Courses (36 credits)

ART 317	Graphic Design I (3)
ART 355	Typography (3)
ART 321	Computer Graphics I (3)
ARTH 327	History of Modern Design (3)
ART 334	Photography II (3) or Photography III (3)
ART 335	Photography III (3)
ART 373	Illustration I (3)
ART 417	Graphic Design II (3)
ART 421	Computer Graphics II (3)
ART 473	Illustration II (3)
ART 457	Graphic Design III (3)
ART 483	Package Design (3) or Industrial Design (3)
ART 368	Industrial Design (3) or Computer Multimedia I (3)
ART 363	Computer Multimedia I (3)
ART 497	Senior Project (3)

Illustration: Studio Media Area of Focus (69 credits)**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 205	The Human Figure (3)
ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 236	Painting II (3)
ART 241	Sculpture I (3) or Sculpture Course (3)
ART 2xx/3xx	Any 200-300-Level Crafts Course (3)
ARTH 324	Modern Art II (3)

Required Courses (21 credits)

ARTH 3xx/4xx	Any 300-400-Level Art History Course (3)
ART 317	Graphic Design I (3)
ART 373	Illustration I (3)
ART 402	Life Drawing and Anatomy I (3)
ART 473	Illustration II (3)
ART 474	Illustration III (3)
ART 497	Senior Project (3)

Electives (12 credits)

ART 336	Painting III (3)
ART xxx	Any Watercolor Course (3)
ART xxx	Any Printmaking Course (3)
ART 412	Life Drawing (3)
ART 3xx/4xx	Any 300- or 400-Level Studio Course (6)

Illustration: Digital Area of Focus (69 credits)**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 205	The Human Figure (3)
ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 236	Painting II (3)
ART 241	Sculpture I (3)
	or
ART 2xx/3xx	Any 200-300-Level Crafts Course (3)
ARTH 324	Modern Art II (3)

Required Courses (21 credits)

ART 317	Graphic Design I (3)
ART 373	Illustration I (3)
ART 402	Life Drawing and Anatomy I (3)
ART 473	Illustration II (3)
ART 474	Illustration III (3)
ART 497	Senior Project (3)
ARTH 3xx/4xx	Any 300-400-Level Art History Course (3)

Electives (12 credits)

ART 321	Computer Graphics I (3)
ART 360	Computer Art I (3)
ART 460	Computer Art II (3)
ART 3xx/4xx	Any 300- or 400-Level Studies Course (6)

Photography: Fine and Applied Arts Area of Focus (66 credits)**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 217	Introduction to Computer Media (3)
ART 229	Painting I (3)
ART 234	Photography I (3)
ART 241	Sculpture I (3)
	or
ART 2xx/3xx	Any 200-300-Level Crafts Course (3)
ARTH 3xx	Any 300-Level Art History Course (3)
ARTH 351	History of Photography (3)

Required Courses (21 credits)

ART 334	Photography II (3)
ART 335	Photography III (3)
ART 359	Digital Photography I (3)
ART 357	Photographic Formats (3)
ART 435	Photography IV (3)
ART 459	Digital Photography II (3)
ART 497	Senior Project (3)

Electives

9 credits in Studio Art (6 of which must be 300-400-level)

Photography: Photographic Imaging Interdisciplinary Area of Focus (69 credits)**First Level Foundation (18 credits)****Second Level Foundation (18 credits)**

ART 217	Introduction to Computer Media (3)
ART 234	Photography I (3)
ARTH 351	History of Photography (3)
EMF 267	Film Making I (3)
EMF 271	Television Production I (3)
THEA 225	Lighting Design I (3)

Required Courses (24 credits)

ART 334	Photography II (3)
ART 335	Photography III (3)
ART 359	Digital Photography I (3)
ART 357	Photographic Formats (3)
ART 459	Digital Photography II (3)
ART 436	Photography IV (3)
ART 497	Senior Project (3)
EMF 363	History of Film (3)
	or
EMF 364	Aesthetics of Film (3)

Electives (9 credits)

ART 347	Screen Process I (3)
ART 446	New Directions in Painting II (3)
ART 490	Internship (3)
EMF 267	Film Making II (3)
EMF 361	Documentary Film and Video (3)
EMF 362	Experimental Film and Video (3)
EMF 371	Television Production II (3)
MCOM 391	Photojournalism I (3)
MCOM 457	Photojournalism II (3)
THEA 355	Lighting Design II (3)

MINOR IN ART (24 credits)

Students who wish to complete a minor in Art should consult with their departmental adviser. Students may choose either studio or art history for their area of focus in the minor.

Studio (24 credits)**Required Courses (24 credits)**

ART 103	Design I (3)
ART 104	Design II (3)
ART 111	Drawing I (3)
ART 229	Painting I (3)
ART 241	Sculpture I (3)
ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)
ART xxx	Elective (3)

Art History (24 credits)**Required Courses (12 credits)**

ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)
ARTH 391	Research Methods in Art History (3)

12 credits from the following:

ARTH 301	Origins of Western Art (3)
ARTH 303	Greek Art and Architecture (3)
ARTH 305	Roman Art and Architecture (3)
ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Northern Renaissance Art and Architecture (3)
ARTH 313	Baroque Art and Architecture (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)
ARTH 325	History of Modern Architecture (3)
ARTH 327	History of Modern Design (3)
ARTH 331	Art of China (3)
ARTH 333	Art of Japan (3)

ARTH 335	African American Art (3)
ARTH 337	American Art (3)
ARTH 341	Women in Art (3)
ARTH 351	History of Photography (3)
ARTH 485	Seminar in Art History (3)

ART HISTORY CONCENTRATION

Students may select one of two areas of focus in Art History: 1) Research Area of Focus or 2) Research/Studio Area of Focus.

Research Area of Focus

This area of focus is for those students who want to work in the curatorial, educational, public relations or registration areas of a museum or gallery or who wish to go on to graduate school in the art history field. *This area of focus has no studio requirements.*

To complete the Research Area of Focus, students must take a total of 45 upper-division credits. Of the 45 upper-division credits, a minimum of 27 credits, but not more than 36, must be taken in art history. If students choose to take the minimum 27 credits, the difference between the 27 minimum and the 36 maximum must be taken in allied disciplines, such as Anthropology, English, History and Philosophy, in a related historical period, subject to the approval of the faculty adviser. The remaining credits to reach the 45 upper-division total are electives, but they must also be taken in disciplines related to the students' interests in art history.

Required Courses (12 credits)

ARTH 221	Survey of Western Art I (3)
ARTH 222	Survey of Western Art II (3)
ARTH 391	Research Methods in Art History (3)
ARTH 485	Seminar in Art History (repeatable) (3)

Language Requirement

Two years of either German or French, or their equivalent by examination, is strongly recommended but not required.

Multicultural Requirement (3 credits)

One course from the following:

ARTH 331	The Art of China (3)
ARTH 333	The Art of Japan (3)
ARTH 335	African American Art (3)
ARTH 341	Women in Art (3)

Art History Courses (minimum of 24 credits, maximum of 33 credits)

ARTH 301	Origins of Western Art (3)
ARTH 303	Greek Art and Architecture (3)
ARTH 305	Roman Art and Architecture (3)
ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Northern Renaissance Art and Architecture (3)
ARTH 313	Baroque Art and Architecture (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)
ARTH 325	History of Modern Architecture (3)
ARTH 327	History of Modern Design (3)
ARTH 331	Art of China (3)
ARTH 333	Art of Japan (3)
ARTH 335	African American Art (3)
ARTH 337	American Art (3)
ARTH 341	Women in Art (3)
ARTH 351	History of Photography (3)
ARTH 485	Seminar in Art History (repeatable) (3)
ARTH 495-97	Independent Study in Art History (3-9)
ARTH 499	Senior Honors Thesis (3)

Research/Studio Area of Focus

This area of focus is for those students who plan to pursue careers in art conservation, museum exhibition preparation, exhibition design, museum education and gallery work. Students following this area of focus must take both studio and advanced art history courses.

First Level Foundation (18 credits)

Second Level Foundation (18 credits)

ART 2xx	Any 200-Level Crafts Course (3)
ART 205	The Human Figure (3)
ART 229	Painting I (3)
ART 234	Photography I (3)
ART 241	Sculpture I (3)
ARTH 3xx	Art History Course (3)

Required Courses (6 credits)

ARTH 391	Research Methods in Art History (3)
ARTH 485	Seminar in Art History (repeatable) (3)

Electives (9 credits)

ARTH 301	Origins of Western Art (3)
ARTH 303	Greek Art and Architecture (3)
ARTH 305	Roman Art and Architecture (3)
ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Northern Renaissance Art and Architecture (3)

6 credits from the following:

ARTH 313	Baroque Art and Architecture (3)
ARTH 323	Modern Art I (3)
ARTH 324	Modern Art II (3)

3 credits from the following:

ARTH 331	Art of China (3)
ARTH 333	Art of Japan (3)
ARTH 335	African American Art (3)
ARTH 341	Women in Art (3)

6 credits from the following:

ARTH 325	History of Modern Architecture (3)
ARTH 327	History of Modern Design (3)
ARTH 337	American Art (3)
ARTH 351	History of Photography (3)

MAJOR IN ART EDUCATION

Students in the Art Education program receive dual certification enabling them to teach art in Maryland in grades K-12. In addition to meeting the General Education requirements and professional education requirements, students complete 79 credits for the Art Education major. The entire program takes five years to complete. The art education block is taken in the last three semesters of the program.

Requirements for admission are as follows:

1. Junior standing
2. An overall QPA of 2.75
3. A QPA of 3.00 in the major
4. An interview and portfolio review with the art education faculty
5. Permission of the education department

To continue within the professional sequences and be eligible to student teach, students must fulfill the following requirements:

1. Maintain a 3.00 average in the art education sequence
2. Maintain a 2.75 average in the professional course sequence
3. Pass the core battery of the NTE (National Teachers Examination) and the speech and hearing tests prior to student teaching

First Level Foundation (18 credits)

Second Level Foundation (18 credits)

ART 229	Painting I (3)
ART 234	Photography I (3)
ART 236	Painting II (3)
ART 241	Sculpture I (3)
ARTH 3xx/4xx	Any 300-400-Level Art History Course (6)

Studio Requirements (12 credits)

- ART 231 Ceramics (3)
 ART 217 Introduction to Computer Media (3)
 or
 ART 360 Computer Art I (3)
 ART 2xx/3xx Any 200-300-Level Crafts Course (3)
 or
 ART 205 The Human Figure (3)
 ART 3xx Any 300-Level Printmaking Course (3)

Art Education Courses (31 credits)**First Semester of the Art Education block (6 credits)**

- ARED 381 Media and Techniques for Art Teachers: Elementary (3)
 ARED 383 Media and Techniques for Art Teachers: Secondary (3)

Second Semester of the Art Education Block (10 credits)

- ARED 467 Field Experience in Art Education: Elementary (2)
 ARED 468 Field Experience in Art Education: Secondary (2)
 ARED 475 Methods of Teaching Art: Elementary (3)
 ARED 479 Methods of Teaching Art: Secondary (3)

Third Semester of the Art Education Block (15 credits)

- ARED 481 Student Teaching in Art: Elementary (6)
 ARED 483 Student Teaching in Art: Secondary (6)
 ARED 485 Professional Seminar in the Teaching of Art (3)

Professional Courses (12 credits)

- PSYC 201 Educational Psychology (3)
 SCED 319 Survey of Education Programs (3)
 or
 SCED 341 Principles of Secondary Education (4)
 (for students entering with a degree)
 SPED 301 Introduction to Special Education (3)
 EDUC 401 Foundations of Education (3)

Additional Required Courses

- PSYC 101 Introduction to Psychology (3)
 HIST 145 U.S. History before Mid-19th Century (3)
 or
 HIST 146 U.S. History since Mid-19th Century (3)
 COMM 131 Fundamentals of Speech Communication (3)
 Approved Non-Western Culture course (3)

TRANSFER CREDIT POLICY

The Department of Art accepts art credits from other accredited colleges and universities. Portfolio evaluation and transfer credit sheets form a basis for course evaluation.

ART DEPARTMENT HONORS PROGRAMS

The Department of Art grants honors in Art Education, Art History and Studio Art. Admission is granted at the end of the sophomore or beginning of the junior year to students who have the following qualifications: overall cumulative average of 3.25, major average of 3.25, recommendation by adviser to departmental honors coordinator. The minimum requirements for graduation with honors in Art are an overall cumulative average of 3.25 and 3.50 in major field and completion of the honors program of study.

Students accepted into the university Honors Program may take the following: ARTH 207 Honors: Seminar in Art History (repeatable) and ARTH 208 Honors: Seminar in Non-Western Art History (repeatable).

CAREER OPPORTUNITIES

Towson University's Department of Art has a long tradition of preparing students as highly qualified teachers. To prepare students for other careers in art, the department, in conjunction with The Career Center, has developed internships with various studios, schools, colleges, design firms and museums. These internships provide students with the experience necessary for achieving success in their fields, including Web page design, graphic design, illustration and advertising.

STUDENT WORK POLICY

Material submitted by students to satisfy requirements in any course automatically becomes the property of the Department of Art. This material may be returned to students at the discretion of the faculty member.

Department of Dance

Associate Professors: Helene Breazeale (*Professor*), Susan Mann, Dennis Price (*Chair*)

Assistant Professor: Jaye Knutson, Stephen Stone

Part-time Faculty: Leslie Bradley, Joan Fabso-Cassell, Laura Lee Cox, Lester Holmes, Dana Martin, Anne Alex Packard, Stephanie Powell, Paul Shapanus, Nancy Wanich-Romita

OFFICE

Burdick Hall 101, 410-830-2760

PROGRAMS OF THE DEPARTMENT

The Department of Dance offers a Bachelor of Fine Arts degree in Dance Performance and Education, including teacher certification for students planning to teach dance in the public schools. The department offers courses that fulfill various General Education (GenEd) requirements, including I.D. (DANC 321), I.E (DANC 235), II.B.1 (DANC 127), II.B.3 (DANC 101, DANC 105 and 106), and II.C.1 (DANC 102, DANC 123, DANC 125, DANC 133).

The B.F.A. program is an intermediate step in the process of becoming a dance professional or graduate student. This program is based on dance as a studio art form. The experience of moving is the most potent way of understanding dance in this program. The faculty believe that dance involves cognitive, affective and physical ways of doing and knowing and has innate cultural value. Studies in the B.F.A. program at Towson University provide intensive studio and theoretical exposure with an active professional faculty.

Towson University is the only institution of higher education in Maryland to offer the Bachelor of Fine Arts degree in Dance. All students major in Dance Performance. Students may elect to add the education component. Towson University is an accredited institutional charter member of the National Association of Schools of Dance. The Dance major program is also accredited by the National Council for Accreditation of Teacher Education and the National Association of State Directors of Teacher Education and Certification.

International programs are available at Dartington College of the Arts and other locations by agreement with the faculty.

ADMISSION TO THE MAJOR

Students must first submit a written application to the Office of Admissions. Pending acceptance into the university, students must audition for the Dance major. Auditions are held twice during February. *Prospective majors should contact the department for specific dates and an audition application form.* The auditions determine the following:

1. acceptance into the Dance major
2. technical level for class placement
3. scholarship recipients

If students are accepted into the Dance major and do not attend the following fall, they must petition the faculty for later acceptance.

TRANSFER CREDIT POLICY

Students transferring from other institutions must complete a minimum of 20 credits of their dance course requirements at Towson University.

MAJOR IN DANCE PERFORMANCE

The major in Dance Performance leads to the Bachelor of Fine Arts degree. Students in the major must complete 62 credits of required dance courses, 6 credits of required interdisciplinary courses, 12 credits of dance electives, 3 credits of other electives, GenEd requirements (DANC 106, DANC 235 and DANC 321:

specified components of the Dance Performance major), and the performance requirements outlined below. A grade equivalent of 2.00 or higher is required for all courses in the major.

Requirements for the Major

Dance Courses (62 credits)

DANC 106	Fundamentals of Movement (3)
DANC 109	Jazz Dance I (2)
DANC 111	Tap I (2)
DANC 209	Jazz Dance II (2)
DANC 211	Tap Dance II (2)
DANC 223-4	Level I Ballet (4) (2 per semester)
DANC 227-8	Level I Modern (4) (2 per semester)
DANC 235	Composition I (3)
DANC 263	Dance Design and Production (3)
DANC 310	Jazz Dance III (2)
DANC 321	History of the Dance (Adv. Writing) (3)
DANC 323-4	Level II Ballet (6) (3 per semester)
DANC 327-8	Level II Modern (6) (3 per semester)
DANC 335	Composition II (3)
DANC 336	Composition III (3)
DANC 421	Scientific Bases for Dance Analysis (3)
DANC 423-4	Level III Ballet (3) (*total of 9 credits in both Modern and Ballet)
DANC 427-8	Level III (3) (*total of 9 credits in both Modern and Ballet)
DANC 435	Composition IV (3)
DANC 480	Senior Project: Seminar (2)
DANC 491	Senior Project: Concert (3)

**Dance Performance Majors Only*

Required Courses (6 credits)

THEA 101	Acting I (3)
MUSC 107	Fundamentals of Music (3)

Dance Electives (12 credits)

DANC 101	The Alexander Technique (3)
DANC 105	Movement Skills Enhancement for Men (3)
DANC 109	Jazz Dance I (2)
DANC 209	Jazz Dance II (2)
DANC 111	Tap Dance I (2)
DANC 211	Tap Dance II (2)
DANC 201	Developmental Movement (2)
DANC 251	Methods of Teaching Dance (3)
DANC 310	Jazz Dance III (2)
DANC 341	Pointe Technique I (2)
DANC 342	Pointe Technique II (2)
DANC 351	Teaching Dance Technique (3)
DANC 370-379	Special Topics in Dance (1-3)
DANC 381	Dance Company (3)
DANC 383	Modern Dance Repertory (3)
DANC 384	Ballet Repertory (3)
DANC 451	Dance Education and Public Policies (3)
DANC 492	Practicum in Dance Technique (variable)
DANC 495	Independent Study in Dance (1-3)

At least 6 credits of electives must be in Modern Repertory, Ballet Repertory or Dance Company.

Other Electives (3 credits)

Performance Requirements for Majors

To fulfill performance requirements for graduation, Dance majors must audition for the TU Dance Company a minimum of two times during their tenure at Towson and must fulfill one of the following:

1. Perform with the TU Dance Company (3 credits—audition required) or Ballet or Modern Repertory (3 credits each) for a minimum total of 6 credits, and 9 additional credits of works in sections of Dance Composition III and IV for a total of 15 performance credits.
or
2. Transfer students must consult with the chairperson of the Department of Dance to arrange equivalent performing experiences.

Juries

As a mechanism for assessing progress toward the degree, all Dance majors will be evaluated by a jury of faculty members at the end of the spring semester of the sophomore year. The jury will consider a video portfolio of selections from the audition, movement exams, and performances of each student. In addition, each student will perform a combination of movement material at the time of the jury meeting. Written and verbal assessment will be given to each student in relation to the expected student outcomes of the program. Should the jury find a student to be in difficulty from a technical or academic standpoint, he or she may be advised to consider an alternative program of study.

Crews

All Dance majors are required to complete one crew assignment per year in the sophomore and junior years. These assignments are made by the department. Successful completion of each crew assignment is a requirement for graduation with the B.F.A. in Dance Performance and Education.

MAJOR IN DANCE PERFORMANCE EDUCATION CERTIFICATION

Dance majors may also wish to obtain certification to teach dance at the elementary and secondary levels. Students in this program receive certification to teach dance in grades K-12 in the public schools in Maryland and reciprocal states. The program leads to the Bachelor of Fine Arts degree in Dance Performance and Education.

Admission to the Dance Education program and Student Teaching requires: 1) admission to the university; 2) admission to the major; 3) a personal interview; 4) completion of a Criminal Background Disclosure Form that must be notarized and kept on file in the Center for Applied Skills in Education (CASE) Office; 5) and completion of a criminal background check that must be kept on file in the CASE Office before the student enters into an intensive/extensive internship or student teaching experience in a public or private school setting (pre-K through 12). Continuance in the program requires the maintenance of an overall QPA of 2.50 and a QPA of 2.75 in the major. Students must also pass all tests required of Teacher Education candidates.

Students whose QPA falls below the minimum requirement will be placed on departmental probation and given one semester to improve their QPA. Failure to do so may result in suspension from the program.

Students must complete the required dance courses (59 of the 62 credits of Dance Performance major requirements), the required interdisciplinary courses (6 credits), GenEd requirements (COMM 131, HIST 145/146, PSYC 101 and specified non-Western culture GenEd courses approved by the College of Education), the Performance Requirements outlined below, and the following dance and education courses (33 credits).

DANC 201	Developmental Movement (2)
DANC 251	Methods of Teaching Dance (3)
DANC 391	Student Teaching in Elementary School (6)
DANC 392	Student Teaching in Secondary School (6)
DANC 451	Dance Education and Public Policies (3)
PHEC 183	Ballroom/Folk/Square Dancing (1)
PSYC 201	Educational Psychology (3)
SCED 319	Survey of Educational Programs (3)
EDUC 401	Foundations of Education (3)
SPED 301	Introduction to Special Education K-12 (3)

Performance Requirements for Majors

To fulfill performance requirements for graduation, Dance Performance—Education Certification majors must audition for the TU Dance Company a minimum of two times during their tenure at Towson and must fulfill one of the following:

1. Perform with the TU Dance Company (3 credits—audition required) or Ballet or Modern Repertory (3 credits each) for a minimum total of 3 credits, and 12 additional credits of works in sections of Dance Composition III and IV for a total of 15 performance credits.
or
2. Transfer students must consult with the chairperson of the department to arrange equivalent performing experiences.

SCHOLARSHIPS

To qualify for a dance scholarship, students must be full-time Dance majors. Scholarships are renewed as long as the criteria are met and students remain in good academic standing. Scholarship students are required to participate in department service approximately four to six hours per week. Students select the assignments each semester.

Department of Electronic Media and Film

Professor: Peter Lev

Associate Professors: Greg Faller, William Horne, John MacKerron, Barry Moore (*Acting Chair*), John Turner

Assistant Professors: Paula Mozen

Instructors: Stacey Irwin, Patrick Stearns

Lecturer(s): Keith Tishken

Part-time Faculty: James Armstrong, Eric Blair, Scott

Borgerding, Thomas Brandau, Deborah Clark, John Davlin, Russell DeVoe, Ed Fishel, Gary Harner, Fred Kresge, Arthur Laupus, Douglas Maddox, Brian MacDonald, Joseph Osmann, Daniel Perez, Dorothy Roome, Harry Rossen, John Spivey, Keith W. Strandberg, Keith Tishken, Jackson Whitt, Richard White, Paul Wise, Gregory Wright, Paul Zinder

Staff: James Armstrong, Jeff Schmale, John Spivey

OFFICE

Media Center 103, 410-830-3184

PROGRAMS OF THE DEPARTMENT

The Electronic Media and Film major focuses upon the study of the aesthetics and practical issues of Film, Television and Radio. The major is divided into four tracks in Television, Film, Radio and Theory and Criticism. Within the tracks, students are encouraged to develop skills in writing, media history and criticism, and professional media production.

The department offers a major in Electronic Media and Film. This is an undergraduate degree program leading either to the Bachelor of Arts or Bachelor of Science degree. The program is designed to prepare students for career positions in film, television, video and radio.

The Department of Electronic Media and Film is committed to the liberal arts and the professional education of its students. Students are encouraged to develop and refine visual, written and technical skills and to cultivate critical thinking abilities in all courses. The program is designed to prepare qualified individuals for careers in electronic media and film as well as to prepare them for graduate study in related fields.

Students selecting the major should contact the department to be assigned an adviser to assist them in designing a program to meet their special needs. Students will meet with their adviser each semester to discuss their progress and to facilitate necessary changes in their course of study.

Admission Requirements

Effective in the 2000-2001 academic year, there will be a screening process in place for declaring the Electronic Media and Film major. Please contact the department for details.

Graduation Requirements

All major requirements must be completed with a grade equivalent of 2.00 or higher. The Pass grading option is not available for courses applicable toward the major.

Bachelor of Arts Degree Option

Students may earn a Bachelor of Arts degree in Electronic Media and Film by completing the intermediate (200) level of a foreign language.

MAJOR IN ELECTRONIC MEDIA AND FILM

The Electronic Media and Film major requires the student to choose a track, *after* taking two introductory courses. The Electronic Media and Film major requires 39 credits in each track: 6 credits of common introductory courses, 6 credits of writing courses, and 27 credits of courses distributed between required courses and electives. Of those 39 credits, 21 credits must be upper-division courses.

Students are reminded that it is their responsibility to check all prerequisites before registering for any course.

Required Core Courses for all majors in Electronic Media and Film (6 credits):

- | | |
|---------|--------------------------------------|
| EMF 140 | Introduction to Electronic Media (3) |
| EMF 221 | Introduction to Media Production (3) |

Upon completion of the required core, students must fulfill the requirements in one of the four tracks outlined below:

FILM TRACK (33 credits)

Writing Requirements (6 credits)

- | | |
|---------|------------------------------|
| EMF 363 | History of Film (3)** |
| EMF 377 | Broadcast/Film Writing (3)** |

Production Requirements (9 credits)

- | | |
|---------|---|
| EMF 267 | Filmmaking I: Basic 16mm Production (3) |
| EMF 275 | Principles of Film and Video Editing (3) |
| EMF 367 | Filmmaking II: Sync Sound 16mm Techniques (3) |

Production Electives (6 credits)

Choose three credits from the following:

- | | |
|---------|--|
| EMF 430 | The Media Producer (3) |
| EMF 455 | Directing for Film and Video (3) |
| EMF 487 | Seminar in Digital Post Production (3) |

Choose three credits from the following:

- | | |
|---------|--|
| EMF 361 | Documentary Film and Video (3) |
| EMF 362 | Experimental Film and Video (3) |
| EMF 473 | Filmmaking III: Advanced 16mm Techniques (3) |

Media Electives (12 credits)

Choose 12 credits from the following courses, at least 6 credits of which must be upper level. Those courses not already used in the production electives may be included.

- | | |
|---------|----------------------------------|
| EMF 205 | Women and Gender in Film (3) |
| EMF 271 | Television Studio Production (3) |
| EMF 273 | Electronic Field Production (3) |
| EMF 364 | Aesthetics of Film (3) |
| EMF 368 | Genre Theory and Criticism (3) |
| EMF 405 | Screenwriting (3) |
| EMF 464 | Internship in Film (1-6)* |
| EMF 475 | Film Analysis (3) |
| EMF 478 | Special Topics in Film (3) |
| EMF 491 | Independent Study in Film (1-6)* |

RADIO TRACK (33 credits)

Writing Requirements (6 credits)

- | | |
|---------|---------------------------------|
| EMF 311 | History of Electronic Media (3) |
| EMF 377 | Broadcast/Film Writing (3) ** |

Production Requirements (9 credits)

EMF 265	Radio Production I (3)
EMF 365	Radio Production II (3)
EMF 375	Broadcast Performance (3)

Electives (18 credits)

Choose 18 credits from the following courses:

EMF 331	Broadcast/Cable Programming (3)
EMF 403	Sportscasting (3)
EMF 421	Radio Stations Operations (3)
EMF 463	Internship in Radio (1-6)*
EMF 476	Special Topics in Electronic Media (3)
EMF 493	Independent Study in Radio (1-6)*
MCOM 214	Principles of Advertising (3)
MCOM 253	Principles of Public Relations (3)
MCOM 325	Advertising Copywriting (3)
MCOM 350	Media Law (3)
MCOM 352	Media Criticism (3)
MCOM 357	Public Relations Writing (3)
MCOM 381	Broadcast Journalism (3)
MCOM 385	Mass Media and Society (3)
MCOM 407	Writing for New Media (3)
MCOM 431	Public Opinion and the Press (3)
MCOM 433	Media Ethics (3)
MCOM 440	Advertising Media Sales (3)

TELEVISION TRACK (33 credits)**Writing Requirements (6 credits)**

EMF 311	History of Electronic Media (3)
EMF 377	Broadcast/Film Writing (3) **

Production Requirements (9 credits)

EMF 271	Television Studio Production (3)
EMF 275	Principles of Film and Video Editing (3)
EMF 273	Electronic Field Production (3)

Electives (18 credits)

Choose three credits from the following:

EMF 361	Documentary Film and Video (3)
EMF 362	Experimental Film and Video (3)
EMF 387	Corporate Video (3)
EMF 471	Television Studio Operations (3)

Choose 15 credits from the following (courses not chosen from the above elective list may be used in this list):

COMM 304	Persuasion (3)
COMM 315	Business and Professional Communication (3)
EMF 331	Broadcast/Cable Programming (3)
EMF 375	Broadcast Performance (3)
EMF 379	Seminar in Television (3)
EMF 430	The Media Producer (3)
EMF 455	Directing for Film and Video (3)
EMF 465	Internship in Television (1-6)*
EMF 476	Special Topics in Television (3)
EMF 481	Television Journalism (3)
EMF 495	Independent Study in Television (1-6)*
MCOM 350	Media Law (3)
MCOM 352	Media Criticism (3)
MCOM 381	Broadcast Journalism (3)
MCOM 385	Mass Media and Society (3)
MCOM 407	Writing for New Media (3)
MCOM 433	Media Ethics (3)

THEORY AND CRITICISM TRACK (33 credits)**Writing Requirements (6 credits)**

EMF 311	History of Electronic Media (3)
EMF 363	History of Film (3) **

Theory and Criticism Requirements (9 credits)

Choose 9 credits from the following:

EMF 364	Aesthetics of Film (3)
EMF 368	Genre Theory and Criticism (3)
EMF 475	Film Analysis (3)
MCOM 352	Media Criticism (3)

Production Requirements (3 credits)

Choose one course from the following:

EMF 265	Radio Production I(3)
EMF 267	Filmmaking I: Basic 16mm Techniques (3)
EMF 271	Television Studio Production (3)
EMF 273	Electronic Field Production (3)

Electives (15 credits)

Choose 9 credits from among the following, 6 credits of which must be upper level, including those options not taken in II and III above.

COMM 304	Persuasion (3)
COMM 379	Intercultural Communication (3)
EMF 205	Women and Gender in Film (3)
MCOM 350	Media Law (3)
MCOM 385	Mass Media and Society (3)
MCOM 411	Communication Process (3)
MCOM 433	Media Ethics (3)

Choose 6 additional credits in Electronic Media and Film courses.

*No more than 6 credits of independent study and/or internships can be applied to the Electronic Media and Film major.

** This course fulfills the Gen Ed requirement of category I.D.—Advanced Composition.

TRANSFER CREDIT POLICY

Transfer students are required to complete 21 credits in residence toward the Electronic Media and Film major. The department will accept up to 15 credits of compatible courses.

MINOR IN ELECTRONIC MEDIA AND FILM

The Electronic Media and Film minor requires a total of 24 credits, 6 credits in approved introductory courses, 3 credits in media writing, 3 credits in production and 12 credits in selected elective courses. Nine of these credits must be upper division.

Core Requirements (6 credits)

EMF 140	Introduction to Electronic Media (3)
EMF 221	Introduction Media Production (3)

Writing Requirement (3 credits)

Choose one from following:

EMF 311	History of Electronic Media (3)
EMF 363	History of Film (3) **
EMF 377	Broadcast/Film Writing (3) **

Production Requirements (3 credits)

Choose one from the following:

EMF 265	Radio Production I (3)
EMF 267	Filmmaking I: Basic 16mm Production (3)
EMF 271	Television Studio Production (3)
EMF 273	Electronic Field Production (3)

Electives (12 credits)

Choose 12 credits from the following, plus any courses not taken in the requirements listed above.

EMF 331	Broadcast/Cable Programming (3)
MCOM 350	Media Law (3)
MCOM 352	Media Criticism (3)
EMF 364	Aesthetics of Film (3)
MCOM 368	Genre Theory and Criticism (3)

EMF 375	Broadcast Performance (3)
EMF 430	The Media Producer (3)
EMF 460-469	Internship* (1-3)
EMF 491	Independent Study in Film (1-6)*
EMF 493	Independent Study in Radio (1-6)
EMF 495	Independent Study in Television (1-6)*

- 1) The Pass grading option is not available for these courses.
- 2) * No more than 3 credits of independent study/internships can be applied to the Electronic Media and Film minor.
- 3) The department will transfer into the minor up to 9 credit hours of compatible courses.
- 4) Students who wish to minor in Electronic Media and Film and major in either Mass Communication or Communication Studies may apply up to 6 credits simultaneously for satisfaction of major and minor.
- 5) ** This course fulfills the GenEd requirement of category I.D.— Advanced Composition.

DOUBLE MAJOR IN MASS COMMUNICATION AND COMMUNICATION STUDIES

Students who wish to double major in Mass Communication or Communication Studies and Electronic Media and Film may apply up to 9 credits simultaneously for satisfaction of both majors.

INTERNSHIPS

Internship eligibility requirements for Electronic Media and Film are as follows:

1. Junior and senior status
2. Major must be declared.
3. Completion of courses related to the area of internship concentration, specifically:
 - EMF 140 and 271 prior to any television or television broadcast journalism-related placement.
 - EMF 221 and 267 prior to any film placement
 - EMF 140 and 265 prior to any radio or radio broadcast journalism-related placement.
 - QPA requirement: 2.75 overall; 3.00 in the major. Waivers are considered by the department.

For additional information, contact the Career Center.

SCHOLARSHIPS

The Department of Electronic Media and Film offers several scholarships for majors. For more information, contact the department, 410-830-3184.

DEPARTMENTAL ACTIVITIES

Department activities include support for the following active student organizations: Alpha Epsilon Rho (national honorary broadcasting society) and the Film and Video Society. Students are also encouraged to participate in activities such as the Visual Media Laboratory, the campus radio stations, WTSR-AM and WTMD-FM, and the campus television station, WMJF-TV.

Department of Mass Communication and Communication Studies

Professors: Brenda Logue, Ronald Marlon, Richard Vatz

Associate Professors: Charles Flippen (*Acting Chair*), Thom Lieb, Mark McElreath, June Yum

Assistant Professors: Kenneth Broda-Bahm, Ni Chen, Audra Colvert, Beth Haller, Jung-Sook Lee, Jennifer Wood

Instructors: Richard Gist, Elizabeth Skinner, Michael Stanley

Lecturer: Garry Bolan

Part-time Faculty: Robert G. Allen, Karen Amos, Elizabeth Atwood, Stephen Aug, Chris Baron, Scott Baugher, Scott Borgerding, Phyllis Bosley, John Brain, Peter Brinch, Deborah Clark, John Davlin, Russell DeVoe, Holly Dietor, Molly Dugan, Harold Eidlin, Brian Feeney, Richard Germroth, Karen Glenn, Robert M. Graham, Cathy Hanson, Sheri Harris, Linda Heil, Manouchehr Hosseinzadeh, Carl Hyden, David Imre, Alustine Kanu, John Kastner, Timothy Linck, Katherine Loh, Brian MacDonald, Page Miller, Paul B. Moore, Michael Naver, Carol Norton, Robert Nussgart, Joseph O'Donnell, Karen Paris, Judith Phair, Dorothy Roome, Elena Russo, Robert Sidelinger, Brian Simpson, Merrie Street-Yosua, Mark Sullivan, Lisa Turowski, Ann Ventre, Ilene Vogelstein, Kim Wilmot-Weidman, Robert Zarnoch, Samuel Zervitz

Staff: John Bowen, Richard Ellsberry, Emily Rife, Donna Warrington

OFFICE

Van Bokkelen Hall 109-111, 410-830-3431

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PROGRAMS OF THE DEPARTMENT

The Department of Mass Communication and Communication Studies offers the following programs of study: the Communication Studies major, the Mass Communication major, minors in both Communication Studies and Mass Communication, double majors in Political Science and Communication Studies and Political Science and Mass Communication, an interdisciplinary cooperative program with the Department of Marketing and Management, a Master of Arts in Mass Communication, a Master of Science in Communications Management, a graduate certificate in Strategic Public Relations and Integrated Communication, and a post-master's certificate in Litigation Consulting. In addition, the department participates in a multidisciplinary program offering a Master of Science in Human Resource Development.

The department focuses on the study of the structure, processes, aesthetics, functions and effects of human communication and mass media. In this, the most broad-based program in Maryland and the region, students have the opportunity and flexibility to gain knowledge and skills in a wide array of communication fields. In addition, the study of human communication and mass media involves a strong practical content.

At the undergraduate level, the department seeks to contribute to a broad, liberal education for majors and non-majors by raising their level of oral, visual and written communication literacy, as well as their critical thinking abilities, by developing their understanding and appreciation of human message exchanges, and by recognizing how mass media and speech influence our social, political, artistic and cultural existence. In addition, the department seeks to provide knowledge as well as skill needed for future employment in radio, television, journalism, advertising

and public relations industries and/or in business, law, government, education and consulting wherein communication skills are essential.

At the graduate level, the program in mass communication serves two kinds of students: those seeking to build career-oriented skills and qualifications, and those who intend to pursue advanced studies. Students have the opportunity to study theory, criticism, and research methods, and to enhance professional skills appropriate to their career goals. The program integrates television, public relations, journalism, radio, communication theory, and organizational communication, emphasizing the interrelationships and interactions of various media. The program also offers some specialization through elective courses.

The faculty members of the department are committed to scholarly research and/or creative productions in the department's various areas of expertise. As part of a metropolitan university's role in serving the region, the department is pledged to providing service to the university and to a larger community in a variety of ways, such as through its speech and debate program, affiliation with Lambda Pi Eta, American Advertising Foundation, Public Relations Group, Society of Professional Journalists, as well as faculty and student presentations, workshops, and professional networking.

MAJOR IN COMMUNICATION STUDIES

The general purpose for majoring in Communication Studies is to understand and apply the process and function of human communication, as well as the foundations of communication theory, to students' own discourse and to an evaluation of the discourse of others. In addition, the major allows students to develop skills in communication as a method of inquiry and advocacy.

Specifically, the major is intended to accomplish two objectives. First, students will be given several different opportunities to develop personal skills which enable them to secure public and private sector positions requiring communication competencies (i.e., speaking, writing, critical thinking, and advocacy skills for interpersonal, organizational and public settings). Second, students will become more liberally educated in personal and societal value structures, ethics, cultural heritage and the impact of messages upon the individual and society.

Graduates with majors in Communication Studies have gone on to graduate school or careers in the public sector, private industry, or education, in areas such as personnel, sales, lobbying, internal (organizational) communication, conference and meeting management, training and development, public affairs, corporate relations, law, religion, teaching, or communication consulting.

Graduation Requirements

All major requirements must be completed with a grade equivalent of 2.00 or higher. The Pass grading option is *not* available for courses applicable toward the major.

Bachelor of Arts Degree Option

Students may earn a Bachelor of Arts degree by completing the intermediate (200) level of a foreign language.

Requirements for the Major

The Communication Studies major requires a total of 36 credits: 18 credits in the core, 6 credits of theory and criticism courses, 3 credits of applied communication courses and 9 credits of electives as listed below.

Required Courses (18 credits)

COMM 115 Introduction to Interpersonal Communication (3).
COMM 131 Fundamentals of Speech Communication (3)
COMM 211 Rhetorical Theory and Criticism (3)

COMM 331 Advocacy and Argument (3)

or
COMM 249 Speech and Debate I (1.5)

and
COMM 250 Speech and Debate II (1.5)

COMM 419 Organizational Communication (3)

COMM 480 Communication Research (3)

Theory and Criticism Courses (6 credits)

COMM 304 Persuasion (3)

COMM 321 Interpersonal Communication (3)

COMM 379 Intercultural Communication (3)

MCOM 352 Media Criticism (3)

MCOM 411 Communication Process (3)

Applied Communication Courses (3 credits)

COMM 216 Group Discussion (3)

COMM 303 Advanced Public Speaking (3)

COMM 315 Business and Professional Communication (3)

Electives (9 credits)

COMM 301 Nonverbal Communication (3)

COMM 418 Communication Training and Development (3)

COMM 420 Communication in the Legal Process (3)

COMM 422 Conference and Meeting Management (3)

COMM 470 Special Topics in Communication (3)

COMM 490 Internship in Communication Studies (1-6)*

COMM 495 Independent Study in Communication Studies (1-6)*

MCOM 214 Principles of Advertising (3)

MCOM 253 Principles of Public Relations (3)

Or any of the courses listed above under theory and criticism or applied communication.

*No more than 3 credits of independent study and/or internships can be applied toward the Communication Studies major.

TRANSFER CREDIT POLICY

Transfer students are required to complete 21 credits in residence toward the Communication Studies major. The department will accept up to 15 credits of compatible courses.

DOUBLE MAJOR IN COMMUNICATION STUDIES AND MASS COMMUNICATION

Students who wish to complete a double major in Communication Studies and Mass Communication may apply up to 12 credits simultaneously toward fulfillment of both majors.

MAJOR/MINOR IN COMMUNICATION STUDIES AND MASS COMMUNICATION

Students who wish to major in Communication Studies and minor in Mass Communication may apply up to 6 credits simultaneously toward fulfillment of both major and minor.

DOUBLE MAJOR IN COMMUNICATION STUDIES AND POLITICAL SCIENCE

Students electing to major in both Communication Studies and Political Science must complete the requirements for both majors. Following the outline below, students can complete the two majors with 60 credits of Communication Studies and Political Science courses. Completing these two majors separately requires a minimum of 72 credits (36 credits in each major).

- I. Required Courses in Political Science (12 credits — see the Department of Political Science)
- II. Elective Courses in Political Science (24 credits)

Note: The Department of Political Science will accept two of the following communication studies courses (6 credits) toward fulfillment of the electives in the Political Science major:

COMM 304 Persuasion (3)

COMM 331 Argument and Advocacy (3)

COMM 379 Intercultural Communication (3)

COMM 420 Communication in the Legal Process (3)
 COMM 470 Special Topics (3)*

* Topic to be approved by the Department of Political Science

III. Required Courses in Communication Studies

- A. Required Courses (18 credits - see the Department of Mass Communication and Communication Studies)
- B. Theory and Criticism Courses (6 credits)
- C. Applied Communication Courses (3 credits)
- D. Electives (9 credits)

Note: The Department of Mass Communication and Communication Studies will accept two of the following Political Science courses (6 credits) toward fulfillment of the electives in the Communication Studies major:

- POSC 340 Comparative Public Policy (3)
- POSC 361 Political Behavior (3)
- POSC 375 Public Administration (3)
- POSC 381 Presidency (3)
- POSC 383 Congress (3)
- POSC 417 Political Parties (3)
- POSC 459 Simulation and Games (3)
- POSC 461 Research Methods (3)
- POSC 470-479 Special Topics (3)*

* Topic to be approved by the Department of Mass Communication and Communication Studies

MINOR IN COMMUNICATION STUDIES

The Communication Studies minor requires 24 credits: 15 credits in the core, 3 credits of theory and criticism courses, 3 credits of applied communication courses, and 3 credits of electives as listed below.

Graduation Requirements

All minor requirements must be completed with a grade equivalent of 2.00 or higher. The Pass grading option is *not* available for courses applicable toward the minor.

Combined Program with Mass Communication

Students who wish to minor in Communication Studies and major in Mass Communication may apply up to 6 credits simultaneously toward fulfillment of both major and minor.

Required Core (15 credits)

(See list under major requirements. All courses which appear there are required for the minor with the exception of COMM 480.)

Theory and Criticism Courses (3 credits)

(See list under the major requirements.)

Applied Communication Courses (3 credits)

(See list under the major requirements.)

Electives (3 credits) (See list under the major requirements. COMM 480 may be added to this list.)

Note: No more than 3 credits of independent study and/or internships can be applied toward the Communication Studies minor.

TRANSFER CREDIT POLICY

The department will accept up to 9 credits of compatible courses toward the minor.

PRE-MASS COMMUNICATION MAJOR

All incoming freshmen and currently enrolled students interested in becoming undergraduate Mass Communication majors must become Pre-Mass Communication majors (PMCO) and enroll in three required screening courses as follows:

- ENGL 102 Writing for a Liberal Education (3)
- COMM 131 Fundamentals of Speech Communication (3)
- MCOM 101 Introduction to Mass Communication (3)

Students cannot apply for MCOM as a major until they have met the above requirement.

Note: This requirement applies only to incoming freshmen and currently enrolled Towson University students, not to transfer students in 2000-01, or students working on a Second Bachelor's degree.

Students are eligible to apply for admission to the Mass Communication (MCOM) major after completing at least 30 credit hours at Towson University or elsewhere, and upon completion of the three courses above earning a minimum grade of C+ (2.33) in *each* of these courses. No more than *one* of the screening courses can be repeated for the purpose of determining eligibility. PMCO students interested in declaring MCOM as their major should submit applications to the department office in order to be considered for admission to the program. Attached to these applications should be official transcripts showing grades in the three courses identified above, including equivalent courses taken at other institutions. Three times a year (fall, spring and summer), a group of eligible candidates, namely those who have completed the courses listed above and filed application forms with the department, will be selected to declare Mass Communication as a major.

Students are reminded that admission to the MCOM major is highly competitive and limited to students who complete the screening courses, and earn the highest Quality Point Averages among applicants. The higher a student's cumulative Quality Point Average in at least 30 semester hours, the higher the probability of a student being offered admission to the MCOM major. Successful completion of the screening courses does not, in itself, guarantee admission to the MCOM program. The number selected will be on a space-available basis. The criteria used for selection will be the cumulative QPA from the three courses noted above, regardless of where those courses were taken and the overall QPA at the time of application. The top percentage of students in each grouping will be admitted to the major, the specific number being determined by the ability of the department to provide the needed courses/experiences for the majors. Students may re-apply for admission to the major as often as they choose. Appeals may be addressed to the department's Executive Committee. All appeals should be in the form of a letter accompanied by a transcript.

MAJOR IN MASS COMMUNICATION

The Mass Communication major enables students to learn the practical application, structure, processes, aesthetics, responsibilities and effects of the mass media. The objectives of the Mass Communication major are 1) to provide students with appropriate training for careers in communication and 2) to help students become more critical consumers of the media.

Mass Communication majors are expected to develop and refine their visual and written skills; to think critically about ways in which the mass media influence society; and, to recognize and appreciate the need for a broad and diverse liberal arts education.

Students who complete the Mass Communication major will have many career options, especially in the broadly defined fields of journalism, radio, television, new media, advertising, strategic public relations and integrated communications. Majors are expected to learn how the various fields in mass communication are structured and function, and to understand how the media are converging and the consequences of that convergence.

Students who complete the Mass Communication major are expected to:

- understand and apply relevant theories of mass communication
- understand and analyze research in mass communication
- understand and apply legal issues, statutes and regulations affecting mass communication
- understand and apply ethical principles that can be used to prevent and resolve potential conflicts and dilemmas in the operation of the mass media
- demonstrate proficiency in writing for the mass media
- demonstrate competence in the student's chosen track within the major

Bachelor of Arts Degree Option

Students may earn a Bachelor of Arts degree by completing the intermediate (200) level of a foreign language.

Requirements for the Mass Communication Major

The Mass Communication major requires 36 credit hours: 9 credits in core courses and 27 credits in track courses. Students are required to fulfill the requirements of one track. All major requirements must be completed with a grade equivalent of 2.00 or higher. The Pass grading option is *not* available for courses applicable to the major. Students are reminded that it is their responsibility to check all prerequisites before registering for any course.

Required Core Courses for All Three Tracks within the Major (9 credits)

MCOM 101	Introduction to Mass Communication (3)
COMM 480	Communication Research (3)
	or
MCOM 490	Mass Communication Research (3)
MCOM 350	Media Law (3)
	or
MCOM 433	Media Ethics (3)

JOURNALISM AND NEW MEDIA TRACK (27 credits)

Note: To begin this track, students should enroll in MCOM 255 News Writing (a special permit course).

Required Basic Courses (12 credits)

MCOM 255	News Writing (3)
MCOM 358	News Editing (3)
MCOM 407	Writing for New Media (3)
One of the following:	
MCOM 391	Photojournalism (3)
	or
MCOM 415	Mass Media Graphics (3)

Required Professional Skills Writing Courses (6 credits)

Choose two of the following:

MCOM 356	Feature Writing (3)
MCOM 373	News Reporting (3)
MCOM 483	Computer-Assisted Reporting (3)
MCOM 4xx	Literary Journalism (3)

Track Electives (9 credits)

Choose from the following and from any courses not already chosen in the above groupings:

MCOM 100	Using Information Effectively in Mass Communication (3)
COMM 131	Fundamentals of Speech Communication (3)
COMM 304	Persuasion (3)
MCOM 352	Media Criticism (3)
MCOM 359	Magazine Publishing (3)
MCOM 381	Broadcast Journalism (3)
MCOM 385	Mass Media and Society (3)
MCOM 3xx	Desktop Publishing (1)
MCOM 3xx	Image Editing (1)
MCOM 3xx	Web Publishing (1)

MCOM 411	Communication Process (3)
MCOM 431	Public Opinion and the Press (3)
MCOM 457	Photojournalism II (3)
MCOM 461	Internship in Journalism (1-6)*
MCOM 479	Special Topics in Journalism (3)
MCOM 496	Independent Study in Journalism (1-6)

Certificate in Broadcast Journalism

Students completing the Mass Communication major in the Journalism and New Media Track are eligible for a departmental *Certificate in Broadcast Journalism* if they take an additional five required courses outside the MCOM major as specified below:

EMF 140	Introduction to Electronic Media (3)
EMF 265	Radio Production I (3)
EMF 271	Television Studio Production (3)
	or
EMF 273	Electronic Field Production (3)
MCOM 381	Broadcast Journalism (3)
EMF 481	Television Journalism (3)

Students must earn a grade equivalent of 3.00 or higher in each of the above courses to receive the certificate. Students need to apply for the certificate with documentation of eligibility at least 90 days before graduation.

ADVERTISING TRACK (27 credits)

Note: To begin this track, students should enroll in MCOM 214 Principles of Advertising (a special permit course).

Required Basic Courses (12 credits)

COMM 131	Fundamentals of Speech Communication (3)
MCOM 214	Principles of Advertising (3)
MCOM 323	Advertising Media Planning (3)
MCOM 460	Advertising Campaigns (3)

Required Professional Skills Writing Courses (6 credits)

MCOM 325	Advertising Copywriting (3)
Choose one of the following:	
MCOM 255	News Writing (3)
	or
MCOM 357	Public Relations Writing (3)

Track Electives (9 credits)

The following groupings are designed to help students in their selection of electives. Choose from the following and from any courses not chosen in the above groupings:

Advertising

MCOM 440	Advertising Media Sales (3)
MCOM 443	International Advertising (3)
MCOM 445	Corporate and Institutional Advertising (3)
MCOM 4xx	Internship in Advertising (1-6)*
MCOM 4xx	Independent Study in Advertising (1-6)*

Strategic Public Relations and Integrated Communication

MCOM 253	Principles of Public Relations and Integrated Communications (3)
MCOM 451	Public Relations for Nonprofit Organizations (3)
MCOM 453	Public Relations and Integrated Communications Campaigns (3)
MCOM 459	Professional Issues in Public Relations, Advertising and Integrated Communications (3)
COMM 419	Organizational Communication (3)
COMM 422	Conference and Meeting Management (3)

Electronic Media and Film

EMF 140	Introduction to Electronic Media (3)
EMF 221	Principles of Film and Media Production (3)
EMF 271	Television Studio Production (3)
EMF 273	Electronic Field Production (3)
EMF 377	Broadcast/Film Writing (3)

Journalism

MCOM 100	Using Information Effectively in Mass Communication (3)
MCOM 356	Feature Writing (3)
MCOM 358	News Editing (3)
MCOM 359	Magazine Publishing (3)
MCOM 391	Photojournalism I (3)
MCOM 407	Writing for New Media (3)
MCOM 415	Mass Media Graphics (3)
MCOM 431	Public Opinion and the Press (3)

Media Analysis

MCOM 352	Media Criticism (3)
MCOM 385	Mass Media and Society (3)
MCOM 411	Communication Process (3)

Communication Studies

COMM 115	Introduction to Interpersonal Communication (3)
COMM 303	Advanced Public Speaking (3)
COMM 304	Persuasion (3)
COMM 315	Business and Professional Communication (3)
COMM 331	Advocacy and Argument (3)
COMM 379	Intercultural Communication (3)

Certificate in Advertising

Students completing a Mass Communication major in the Advertising Track are eligible for a departmental *Certificate in Advertising* by having a Quality Grade Point equivalent of 3.00 or higher in the track courses taken at TU and by completing MCOM 4xx, Internship in Advertising. Students need to apply for the certificate with documentation of eligibility at least 90 days before graduation.

STRATEGIC PUBLIC RELATIONS AND INTEGRATED COMMUNICATIONS TRACK (27 credits)

Note: To begin this track, students should enroll in MCOM 253 Principles of Public Relations and Integrated Communications (a special permit course).

Required Basic Courses (12 credits)

COMM 131	Fundamentals of Speech Communication (3)
MCOM 253	Principles of Public Relations and Integrated Communications (3)
COMM 419	Organizational Communication (3)
MCOM 453	Public Relations and Integrated Communications Campaigns (3)

Required Professional Skills Writing Courses (6 credits)

MCOM 357	Public Relations Writing (3)
Choose one of the following:	
MCOM 325	Advertising Copywriting (3)
or	
MCOM 255	News Writing (3)

Track Electives (9 credits)

The following groupings are designed to help students in their selection of electives. Choose from the following groupings and from any courses not chosen in the above groupings:

Strategic Public Relations and Integrated Communications

MCOM 451	Public Relations for Nonprofit Organizations (3)
MCOM 459	Professional Issues in Public Relations, Advertising and Integrated Communications (3)
MCOM 462	Internship in Public Relations (1-6)*
MCOM 497	Independent Study in Public Relations (1-6)*

Advertising

MCOM 214	Principles of Advertising (3)
MCOM 440	Advertising Media Sales (3)
MCOM 360	Advertising Campaigns (3)
MCOM 443	International Advertising (3)
MCOM 445	Corporate or Institutional Advertising (3)

Electronic Media and Film

EMF 140	Introduction to Electronic Media (3)
EMF 221	Principles of Film and Media Production (3)
EMF 265	Radio Production I (3)
EMF 271	Television Studio Production (3)
EMF 273	Electronic Field Production (3)
EMF 377	Broadcast/Film Writing (3)

Journalism

MCOM 100	Using Information Effectively in Mass Communication (3)
MCOM 356	Feature Writing (3)
MCOM 358	News Editing (3)
MCOM 359	Magazine Publishing (3)
MCOM 383	News Reporting (3)
MCOM 391	Photojournalism I (3)
MCOM 407	Writing for New Media (3)
MCOM 415	Mass Media Graphics (3)
MCOM 431	Public Opinion and the Press (3)

Media Analysis

MCOM 352	Media Criticism (3)
MCOM 385	Mass Media and Society (3)
MCOM 411	Communication Process (3)

Communication Studies

COMM 115	Introduction to Interpersonal Communication (3)
COMM 303	Advanced Public Speaking (3)
COMM 304	Persuasion (3)
COMM 315	Business and Professional Communication (3)
COMM 331	Advocacy and Argument (3)
COMM 379	Intercultural Communication (3)
COMM 422	Conference and Meeting Management (3)

Certificate in Strategic Public Relations and Integrated Communications

Students completing a Mass Communication major in the Strategic Public Relations and Integrated Communications Track are eligible for a departmental *Certificate in Strategic Public Relations and Integrated Communications* by having a Quality Grade Point equivalent of 3.00 or higher in the track courses taken at TU and by completing MCOM 462 Internship in Public Relations. Students need to apply for the certificate with documentation of eligibility at least 90 days before graduation.

Notes about the major:

- 1) Students must complete at least 18 credits of upper-level coursework in the major.
- 2) No more than six credits of independent study and/or internships can be applied to the Mass Communication major.
- 3) The Pass grading option is *not* available for courses applied to the major.
- 4) Students who wish to double major in Mass Communication and Communication Studies may apply up to 9 credits simultaneously for satisfaction of both majors. Students who wish to major in Mass Communications and minor in Communication Studies may apply 6 credits simultaneously for satisfaction of both major and minor.
- 5) Students who wish to double major in Mass Communication and Electronic Media and Film may apply up to 9 credits simultaneously for satisfaction of both majors. Students who wish to major in Mass Communication and minor in Electronic Media and Film may apply 6 credits simultaneously for satisfaction of both major and minor.
- 6) Transfer students are required to take 21 hours in residence in their major area. The department will transfer up to 15 semester hours of compatible courses.

DOUBLE MAJOR IN MASS COMMUNICATION AND POLITICAL SCIENCE

Students electing to major in both Mass Communication and Political Science must complete the requirements for both majors. Following the outline below, students can complete the two majors with 60 credits of Mass Communication and Political Science courses. Completing these two majors separately requires a minimum of 72 credits (36 credits in each major).

- I. Mass Communication
 - A. Required Core Courses (9 credits)
 - B. Required Track Courses (12 credits)
 - C. Required Professional Skills Writing Courses (6 credits)
 - D. Electives (9 credits)

Note: The department will accept two of the following political science courses (6 credits) toward fulfillment of the electives in the Mass Communication major:

POSC 340	Comparative Public Policy (3)
POSC 361	Political Behavior (3)
POSC 375	Public Administration (3)
POSC 381	Presidency (3)
POSC 383	Congress (3)
POSC 417	Political Parties (3)
POSC 459	Simulation and Games (3)
POSC 461	Research Methods (3)
POSC 470-479	Special Topics (3)*

* Topic to be approved by the Department of Mass Communication and Communication Studies

- II. Political Science
 - A. Required Courses in Political Science (12 credits — see the Department of Political Science)
 - B. Elective Courses in Political Science (24 credits)

Note: The Department of Political Science will accept two of the following mass communication courses (6 credits) toward fulfillment of the electives in the Political Science major:

MCOM 350	Media Law (3)
MCOM 352	Media Criticism (3)
MCOM 385	Mass Media and Society (3)
MCOM 431	Public Opinion and the Press (3)
MCOM 433	Media Ethics (3)

MARKETING INTERDISCIPLINARY SPECIALIZATION FOR MASS COMMUNICATION

Completion of the Mass Communication major in the Public Relations or Advertising Track and 15 credits as follows. Students must earn a grade equivalent of 2.00 or higher in each required course below. Students completing this specialization will receive a departmental certificate. Students need to apply for the certificate with documentation of eligibility at least 90 days before graduation.

Marketing Specialization

MKTG 341	Principles of Marketing (3)
MKTG 345	Advertising Management (3)
MKTG 351	Sales Management (3)
MKTG 425	Buyer Behavior Analysis (3)
MKTG 441	Marketing Research and Forecasting (3)

MINOR IN MASS COMMUNICATION

The Mass Communication minor requires a total of 24 credits: 9 credits in required core courses, 6 credits of approved writing courses, and 9 credits of upper-division electives (see major listings).

Core Required Courses (9 credits)
(See list under the major requirements.)

Writing Courses (6 credits)
(See list under the major requirements.)

Electives (9 credits)

Any upper-division courses listed under electives for the major.

Note: No more than 3 credits of independent study and/or internships can be applied toward the Mass Communication minor.

Graduation Requirements

All minor requirements must be completed with a grade equivalent of 2.00 or higher. The Pass grading option is *not* available for courses applicable toward the minor.

Combined Programs with Electronic Media and Film and Communication Studies

Students who wish to minor in Mass Communication and major in either Electronic Media and Film or Communication Studies may apply up to 6 credits simultaneously toward fulfillment of both major and minor.

Transfer Credit Policy

The department will accept up to 9 credits of compatible courses toward the minor.

INTERNSHIPS

Internship eligibility requirements for Communication Studies and Mass Communication are as follows:

1. Junior or senior status
2. Major must be declared
3. Completion of courses related to the area of internship concentration, specifically:
 - MCOM 101 and 255 prior to any print journalism placement
 - MCOM 101 and 253 prior to any public relations placement
 - MCOM 101 and 214 prior to any advertising placement
 - COMM 115 and 131 prior to any Communication Studies placement
4. QPA requirement: 2.75 overall; 3.00 in the major. Waivers are considered by the department.

For further information, contact the Career Center.

DEPARTMENTAL SCHOLARSHIPS

The Patrick J. O'Connell Memorial Scholarship is available for Mass Communication students with a special interest in Broadcast Journalism, Cinematography, Journalism, Advertising, or Public Relations. Other scholarships include the Eddie Ballard Award for Journalism, the O'Connor Radio Broadcasting Scholarship, the Sam Lacy Sports Communication Scholarship, the George Rogers Jr. Memorial Scholarship, the Murfin Scholarship, the Public Relations Society of America Scholarship, and speech and debate program scholarships. For scholarship information and deadlines, contact the department scholarship coordinator. Some of these scholarships may be housed in the Department of Electronic Media and Film in 2000-01.

DEPARTMENTAL ACTIVITIES

Department activities include support for the following active student organizations: Speech and debate Team, Pi Kappa Delta (national honorary forensic society), Pi Lambda Eta (national honorary society in communication), the American Advertising Foundation Chapter, the Public Relations Student Group, and the Society for Professional Journalists.

GRADUATE PROGRAM

Detailed information regarding the various graduate programs is included in the *Graduate Catalog*. The department offers a master's degree in Communications Management, a certificate in Strategic Public Relations and Integrated Communications, and a certificate in Litigation Consulting.

Department of Music

Professors: Cecylia Barczyk, Joseph Briscuso (*Honors Coordinator*), Terry Ewell (*Chair*), Harold Griswold (*Graduate Master of Music in Performance Coordinator*), David Marchand, Reynaldo Reyes, Dale Rauschenberg, Carl Schmidt, Zoltan Szabo

Associate Professors: James Anthony, Lawrence Crawford, Michael Jothan (*Graduate Master of Science in Music Education Coordinator*), William Kleinsasser, Gerald Phillips, Paul Rardin, Dana Rothlisberger

Assistant Professors: Leneida Crawford, Diane Luchese, Christina Magaldi, Eva Mengelkoch, Timothy Murphy, Donald Watts

Instructors: Michael Decker, Luis Engelke

Part-time Faculty: Christopher Bacas, Mary Bisson, Carolyn Black-Sotir, Michael Bunn, Phillip Collister, Ron Diehl, Phyllis Frankel, Christina Giorgilli, Bette Hankin, Steve Herberman, Michelle Humphreys, Bernard Hynson, MaryClaire Ingalls, Paul Johnson, Mark McCoy, Richard McCready, Jim McFalls, Sara Nichols, Alex Norris, Sherrie Norwitz, Kathleen Pierson, Jonathan Seligman, Nanette Shannon, Phil Snedecor, David Stambler, Leslie Starr

Assistant to the Chairperson: Mary Ann Criss

Computer/Audio Manager: John Spivey

OFFICE

Center for the Arts 376, 410-830-2839

www.towson.edu/music

PROGRAMS OF THE DEPARTMENT

The Department of Music offers three major degree programs. The first is a Bachelor of Music with concentrations in Vocal Performance, Instrumental (Winds, Strings, Percussion, and Guitar) Performance, Keyboard (Piano and Pipe Organ) Performance, Music Literature, Theory and Composition, and a Jazz/Commercial Program in either Performance or in Composition. The second degree is a Bachelor of Science with a concentration in either Instrumental Music Education or Vocal-General Music Education. The third is a Bachelor of Science in Music.

Although there are courses common to all degree programs and concentrations, each program is designed with its own special requirements, especially in the junior and senior years. These requirements are found on the following pages. A Music minor is available for those students who desire to pursue music studies as a secondary field.

Students who wish to apply to the department must write or call the department as well as the director of admissions of the university. Applicants will receive information from both offices regarding the necessary entrance requirements and procedures. Admission to the university does not guarantee acceptance as a Music major or minor.

Every Music major must enroll for private lessons on an instrument or in voice with an instructor provided by the university. All students must perform before a faculty jury at the end of each semester in which they are enrolled in private lessons.

To advance into the upper-division level, students will be evaluated during their fourth semester as to their academic and performing competencies. This assessment will include an extended jury examination of at least double length.

All students, except those pursuing a literature concentration, will perform in recital with permission of their applied instructors. The Music Education and Composition Concentrations require a senior recital, while the Performance Concentrations require both junior and senior recitals. Students pursuing a Bachelor of Science in Music and who choose music

performance as their principal area of competency perform a senior recital. Students must enroll in private lessons the semester(s) of their recital(s). Senior recital may not be taken during the same semester as student teaching. (There is a fee assessed to each student who performs in recital (MUSA 399, MUSA 497, MUSA 498, MUSA 499).)

Students seeking the Bachelor of Music degree or the Bachelor of Science in Music Education degree must reach the level of piano proficiency established for each degree and its concentration. Music Education, Organ, Composition and Literature majors must pass the Piano Proficiency Test. This test is administered each semester.

Ensemble participation is required of all students. Each degree program and/or concentration has its own set of expectations. These are listed under the degree requirements found on the following pages.

All students are required to attend 60 approved on-campus recitals/concerts before permission is granted to perform in senior recital. Of these 60, 12 must be faculty performances. For transfer students these numbers are prorated after discussion with the department chair.

Majors must earn a grade equivalent of 2.00 or higher in all Music major courses, ensembles and lessons. This includes foreign languages and Music Education core courses required of degree programs. Besides the required Music major courses, all students must fulfill the General Education requirements found in the University Curriculum section in this catalog. Notes: (1) GenEd II.C.1. is fulfilled by MUSC 102 and (2) GenEd I.D. is fulfilled by MUSC 302. University regulations require students to accrue no fewer than 32 upper-division (300-400) credits for graduation.

The department also supports the Elementary Education Program by offering Music Fundamentals and a specific section of Teaching Music in the Elementary School.

CORE COURSES FOR BACHELOR OF MUSIC AND BACHELOR OF SCIENCE IN MUSIC EDUCATION DEGREES AND CONCENTRATIONS

The following core courses (28-31 credits) are required for all Bachelor of Music and Music Education majors.

MUSC 102	Introduction to Music of the Western Heritage: Analytic Emphasis (3)
MUSC 131	Theory I (2)
MUSC 132	Theory II (2)
MUSC 133	Musicianship I (2)
MUSC 134	Musicianship II (2)
MUSA 190	Piano Class I (formerly MUSC 217) (except Music Education and Keyboard majors) (1)
MUSA 191	Piano Class II (formerly MUSC 218) (except Music Education and Keyboard majors) (1)
MUSC 231	Theory III (2)
MUSC 232	Theory IV (2)
MUSC 233	Musicianship III (2)
MUSC 234	Musicianship IV (2)
MUSC 235	Keyboard Harmony (except Music Education and Keyboard majors) (1)
MUSC 301	History of Music I (Jazz/Commercial majors substitute MUSC 426 Jazz History) (3)
MUSC 302	History of Music II (3)
MUSC 405	Contemporary Music (except Jazz/Commercial Performance Concentration) (3)

MAJOR IN MUSIC EDUCATION

Students majoring in Music Education are required to complete the core courses for all degrees and concentrations (28 credits), the Music Education Professional Core Courses (27 credits), and the GenEd requirements. Students choose either the Vocal-General Music Education Concentration (31-35 credits) or the Instrumental Music Education Concentration (37-38 credits).

Successful completion of the program certifies students to teach music at the K-12 level in Maryland (and other states with which reciprocal agreements exist). Certification requires successful completion of the National Teachers Examination (NTE) and TU speech and hearing screenings.

With the elimination of the NTE Core Battery tests, effective November 22, 1998, all teacher candidates who have not taken or passed the General Knowledge and Communication Skills sections of the NTE will be required to submit qualifying scores on the Praxis I Academic Skills Assessments to the Center for Applied Skills in Education (CASE) Office for admission to programs/student teaching. Information on the Praxis tests is available in the CASE Office, Hawkins Hall, room 302.

Requirement for Admission to Teacher Education Program

All students applying for admission to a Teacher Education Program at Towson University are required to complete a Criminal Background Disclosure Form. This form is to be notarized and sent to the director of the Center for Applied Skills in Education (CASE) to be kept on file.

Requirement for Student Teaching/Internship

Effective fall 1999, all preservice students in Teacher Education programs at Towson University, whose program of study requires an intensive/extensive internship or student teaching experience in a public or private school setting (pre-K through 12), will be required to undergo a criminal background check before beginning this experience. The criminal background check must be filed with the director of CASE.

Requirements for the Major

Music Education Professional Core Courses (27 credits)

PSYC 101	Introduction to Psychology (3)
PSYC 201	Educational Psychology (3)
MUED 310	Introduction to Music in Special Education (3)
SCED 319	Survey of Education (3)
EDUC 401	Foundations of Education (3)
MUED 391	Elementary Student Teaching (6)
MUED 392	Secondary Student Teaching (6)

VOCAL-GENERAL MUSIC EDUCATION CONCENTRATION (31-35 credits)

MUSA xxx	Applied Private Lessons in One Area (7)
MUSA xxx	Ensembles: Six semesters in ensemble, five of which must be in Chorale or Choral Society, one of which may be in Early Music Ensemble or Chamber Singers or Jazz Vocal Ensemble or Music Theater Chorus. Additional voice requirement—one semester Music for the Stage. Additional guitar requirement—four semesters in Guitar Ensemble. (6-10)
MUED 209	Teaching Guitar in the Classroom (2)
MUED 210	Voice Class (Guitar and Keyboard majors only) (2)
MUSC 327	Choral Conducting (3)
MUSC 335	Choral and Instrumental Arranging (3)
MUED 307	Methods of Teaching Vocal-General Music in the Elementary School (4)
MUED 309	Methods of Teaching Vocal-General Music in the Secondary School (2)
MUED 337	Teaching Choral Music in the Elementary and Secondary School (2)
MUSA 498	Senior Recital for Music Education Majors (1)

INSTRUMENTAL MUSIC EDUCATION CONCENTRATION (37-38 credits)

MUSA xxx	Applied Private Lessons in one instrument or percussion area (7)
MUSA xxx	Ensembles: Wind and percussion majors take six semesters in Band or Orchestra, two semesters in Marching Band, one semester in Conducting Lab Ensemble; string majors take seven semesters in Orchestra or Band, one semester in Marching Band, one semester in Conducting Lab Ensemble (8.5)

MUED 201	Brass Class I (1)
MUED 202	Brass Class II (1)
MUED 203	Lower String Class (1)
MUED 204	Upper String Class (1)
MUED 205	Woodwind Class I (1)
MUED 206	Woodwind Class II (1)
MUED 207	Percussion Class I (1)
MUED 208	Percussion Class II (2)
MUED 210	Voice Class (2)
MUED 220	Percussion Workshop (percussion majors only) (1)
MUED 301	Marching Band Techniques (0.5)
MUED 306	Methods of Teaching Instrumental Music in the Elementary School (4)
MUED 308	Methods of Teaching Instrumental Music in the Secondary School (2)
MUSC 329	Instrumental Conducting (3)
MUSC 335	Choral and Instrumental Arranging (3)
MUSA 498	Senior Recital for Music Education Majors (1)

MAJOR IN MUSIC

BACHELOR OF MUSIC DEGREE

Students concentrating in Performance, Theory and Composition, Literature, Jazz/Commercial Performance, or Jazz/Commercial Composition are required to complete the core courses for all degrees and concentrations, the concentration requirements and the GenEd requirements.

VOICE PERFORMANCE CONCENTRATION (52 credits)

MUSA xxx	Applied Private Voice Lessons (16)
MUSA xxx	Ensembles: Six semesters in Chorale or Choral Society, two semesters in Music for the Stage, and 4 credits from the above or from Early Music Ensemble, Chamber Singers, Music Theater Chorus, or Jazz Vocal Ensemble (12)
MUSC 245	Diction for Singers I (English and Italian) (2)
MUSC 246	Diction for Singers II (French and German) (2)
MUSC 327	Choral Conducting (3)
MUSA 399	Junior Recital (1)
MUSC 406	Survey of Solo Voice Literature (3)
MUSC 442	Vocal Pedagogy (3)
MUSC xxx	Electives selected from upper-division literature or theory courses (9)
MUSA 499	Senior Recital (1)
Intermediate level in German, French, or Italian	

GUITAR PERFORMANCE CONCENTRATION (52 credits)

MUSA xxx	Applied Private Guitar Lessons (16)
MUSA xxx	Ensembles: 6 credits Guitar Ensemble, 4 credits any vocal ensemble, 2 credits any instrumental ensemble. (12)
MUSC 305	Introduction to the Music Industry (3)
MUSC 327	Choral Conducting (3)
or	
MUSC 329	Instrumental Conducting (3)
MUSA 399	Junior Recital (1)
MUSC 409	History and Literature of Guitar, Lute, and Vihuela (3)
MUSA 499	Senior Recital (1)
MUSC xxx	Electives selected from upper-division literature or theory courses (9)

PIPE ORGAN PERFORMANCE CONCENTRATION (53 credits)

MUSA xxx	Applied Private Pipe Organ Lessons (16)
MUSA xxx	Applied Private Piano Lessons (2)
MUSA xxx	Ensembles: Six semesters in choral ensembles, two in any other ensemble (8)
MUSA 399	Junior Recital (1)
MUSA 499	Senior Recital (1)
MUED 210	Voice Class (1)
MUSC 327	Choral Conducting (3)
or	
MUSC 329	Instrumental Conducting (3)
MUSC 335	Choral and Instrumental Arranging (3)
MUSC 414	Counterpoint (3)
MUSC 419	Keyboard Literature (3)

- MUSC 453 Organ Pedagogy (3)
 MUSC xxx Electives selected from upper-division literature or theory courses (9)

PIANO PERFORMANCE CONCENTRATION (55 credits)

- MUSA xxx Applied Private Piano Lessons (16)
 MUSA xxx Additional Applied Organ Lessons or Voice Lessons (2)
 MUSA xxx Ensembles: Six semesters in Solo/Ensemble Accompanying; 2 credits in any other ensemble (8)
 MUSA 399 Junior Recital (1)
 MUSA 499 Senior Recital (1)
 MUSC 311 Accompanying and Sight Reading I (3)
 MUSC 327 Choral Conducting (3)
 or
 MUSC 329 Instrumental Conducting (3)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUSC 414 Counterpoint (3)
 MUSC 419 Keyboard Literature (3)
 MUSC 460 Piano Pedagogy (3)
 MUSC xxx Electives selected from upper-division literature or theory courses (9)

WINDS, STRINGS, PERCUSSION PERFORMANCE CONCENTRATION (52 credits)

- MUSA xxx Applied Private Lessons in One Instrument or Percussion Area (16)
 MUSA xxx Ensembles: Eight semesters in either Band or Orchestra; eight semesters of other instrumental ensembles chosen under the supervision of the ensemble directors and applied teachers (16)
 MUSC 305 Introduction to the Music Industry (3)
 MUSC 329 Instrumental Conducting (3)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUSC xxx Electives selected from upper-division literature or theory courses (9)
 MUSA 399 Junior Recital (1)
 MUSA 499 Senior Recital (1)

THEORY AND COMPOSITION CONCENTRATION (52 credits)

- MUSA xxx Applied Private Lessons in a Single Medium (8)
 MUSA 200 Composition Private Lessons (2)
 MUSA 300 Composition Private Lessons (4)
 MUSA 400 Composition Private Lessons (4)
 MUSA xxx Ensembles: One each semester (8)
 MUSC 135 Computer Applications (3)
 MUED 210 Voice Class (1)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUSC 327 Choral Conducting (3)
 or
 MUSC 329 Instrumental Conducting (3)
 MUSC 414 Counterpoint (3)
 MUSC 431 Advanced Arranging (3)
 MUSC xxx Electives selected from upper-division literature or theory courses (9)
 MUSA 499 Senior Recital (1)

MUSIC LITERATURE CONCENTRATION (58 credits)

- MUSA xxx Applied Private Lessons in a Single Medium (8)
 MUSA xxx Ensemble: One each semester (8)
 MUSC 327 Choral Conducting (3)
 or
 MUSC 329 Instrumental Conducting (3)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUSC 402 Music of the Baroque Period (3)
 MUSC 403 Music of the Classical Period (3)
 MUSC 404 Music of the Romantic Period (3)
 MUSC 405 Contemporary Music (3)
 MUSC 414 Counterpoint (3)
 MUSC 493 Independent Research in Music (3)
 MUSC xxx Electives selected from upper-division literature or theory courses (6)

Intermediate level in any foreign language (12)

JAZZ/COMMERCIAL COMPOSITION CONCENTRATION (51 credits)

- MUSA xxx Private Applied Lessons in a Single Medium (8)
 MUSA 200 Composition Private Lessons (2)
 MUSA 300 Composition Private Lessons (4)
 MUSA 400 Composition Private Lessons (4)
 MUSA xxx Ensembles: Eight semesters in Jazz Ensemble (8)
 MUSC 135 Computer Applications (3)
 MUSC 329 Instrumental Conducting (3)
 MUSC 335 Choral and Instrumental Arranging (3)
 MUSC 420 Jazz Theory (3)
 MUSC 426 Jazz History (3)
 MUSC 427 Jazz Arranging (3)
 MUSC 429 Jazz Improvisation I (3)
 MUSC xxx Upper-Division MUSC elective (3)
 MUSA 499 Senior Recital (1)

JAZZ/COMMERCIAL PERFORMANCE CONCENTRATION (55 credits)

- MUSA xxx Applied Private Lessons (16)
 (saxophone majors—8 credits in saxophone and 8 credits in at least one woodwind double; bass majors—8 credits in acoustic, 8 credits in electric; guitar majors—8 credits in jazz/commercial, 8 credits in classical; other instruments—8 credits of jazz/commercial in primary instrument, 8 credits of classical in primary instrument)
 MUSA xxx Ensembles: Eight semesters of jazz ensembles, 8 credits of other instrumental ensembles chosen under the supervision of the ensemble directors and applied teachers (16)
 MUSC 329 Instrumental Conducting (3)
 MUSA 399 Junior Recital (1)
 MUSC 420 Jazz Theory (3)
 MUSC 426 Jazz History (3)
 MUSC 427 Jazz Arranging (3)
 MUSC 429 Jazz Improvisation I (3)
 MUSC 430 Jazz Improvisation II (3)
 MUSC xxx Upper-Division MUSC elective (3)
 MUSA 499 Senior Recital (1)

BACHELOR OF SCIENCE MAJOR IN MUSIC (51 credits)

The Bachelor of Science in Music is designed for students seeking a liberal arts degree in music. Applicants must demonstrate proficiency on an instrument or voice through an audition with members of the music faculty. The curriculum of this program is designed to assure that students receive a solid grounding in the fundamentals of music theory and history, explore the role of music in society, and receive an introduction to the basic principles of music aesthetics. Candidates will receive individual instruction in applied music and will participate in musical ensembles appropriate to their area of musical training. The Department of Music strongly recommends the completion of the intermediate level of a foreign language. Students are encouraged to pursue a minor in a related or complementary field of study.

Students must also undertake one of the following 3-credit capstone experiences demonstrating mastery of some area of their study. Selection of this capstone experience will be made through the student's adviser and must be approved by the department.

Music Performance and Senior Recital

Students who choose music performance as their principal area of competency must complete at least 2 credits of applied music at the upper-division level and complete MUSA 497, Senior Recital for Bachelor of Science in Music Degree (1 credit). (Students must be enrolled for applied music concurrently with Senior Recital.)

Senior Thesis/Project

Students may choose to write a senior thesis under the direction of a faculty adviser. These candidates must successfully complete MUSC 493, Independent Research in Music.

Music Internship

Students who pursue training in a cognate area such as the music business, arts administration, or some other appropriate field must demonstrate competence in that field through the successful completion of MUSC 497, Internship in Music.

Core Courses (42 credits)

The following core courses are required for all Bachelor of Science in Music majors:

MUSC 102	Introduction to Music of the Western Heritage: Analytical Emphasis (3)
MUSC 131	Theory I (2)
MUSC 132	Theory II (2)
MUSC 133	Musicianship I (2)
MUSC 134	Musicianship II (2)
MUSA 190	Piano Class (formerly MUSC 217) (1)
MUSC 231	Theory III (2)
MUSC 301	Music History I (3)
MUSC 302	Music History II (3)
MUSC 421	American Music (3)

One course selected from the following:

MUSC 426	Jazz History (3)
MUSC 4xx	Special Topics (World Music) (3)

Two additional upper-division 3-credit courses (MUSC) (6)

MUSA xxx	Applied Music (6) (must be in one instrument or voice)
MUSA xxx	Ensembles (4)

Capstone Experience

MUSC 493	Independent Research in Music Literature (3) or
MUSC 497	Internship in Music (3) or
MUSA 497	Recital (1) and
MUSAxxx	Upper-level Applied Lessons (2)

Electives (6 credits)

MUED, MUSC, MUSA (ensembles only) (6)

MINOR IN MUSIC

A Music minor is available for students who desire to pursue music studies as a secondary field. The minor requires 24 credits: 12 lower division (100- and 200-level courses) and 12 upper-division (300- and 400-level courses). Music minors are required to have a department adviser to assist with building meaningful schedules. Courses are selected from the following:

I. Lower-Division Requirements (100-200 courses): 12 credits

1. MUSC 102 or 106 (Honors College only), Introduction to Music of the Western Heritage (3)
2. MUSC 105 Elements of Theory (3)
or

Other theory course as determined by advanced theory placement testing and approved by the division leader of the Theory/Composition area.

3. The remaining 6 lower-division credits may be selected from:

- a. Any other 100- or 200-level department course except MUSC 101, which may not be used for the minor
- b. Up to 4 credits of Applied Private Lessons (MUSA) at the 100- or 200-levels (by audition only)
- c. Up to 4 credits of Ensembles (MUSA) at the 100- or 200-levels (many ensembles are by audition only)

II. Upper-Division Electives (300-400 courses): 12 credits

1. Up to 4 credits of Applied Private Lessons (MUSA) at the 300- or 400-levels (by audition only)
2. Up to 4 credits of Ensembles (MUSA) at the 300- or 400-levels (many ensembles are by audition only)
3. Any other 300- or 400-level department courses with the consent of the instructor, including recitals or Music Theory III and IV and Musicianship III and IV.

Students must attain a grade equivalent of 2.00 or higher for courses applied to the minor. The Pass grading option is not available for courses applied to the minor.

GENERAL EDUCATION REQUIREMENTS

The department also offers courses for non-music majors. These courses are primarily taken to satisfy GenEd requirements and include the following:

MUSC 100	Information Gathering and Assessment in Music (GenEd I.B) (3)
MUSC 101	Introduction to Music of the Western Heritage (GenEd II.C.1) (3)
MUSC 102	Introduction to Music of the Western Heritage: Analytic Emphasis (GenEd II.C.1) (3)
MUSC 105	Elements of Western Music Theory (GenEd II.C.1) (3)
MUSC 106	Honors Introduction to Music of the Western Heritage (GenEd II.C.1) (3)
MUSC 109	Introduction to World Musics (GenEd II.D) (3)
MUSC 111	Introduction to American Music (GenEd II.B.1) (3)
MUSC 123	History of Jazz (GenEd II.B.1) (3)
MUSC 125	Honors History of Jazz (GenEd II.B.1) (3)
MUSC 127	Elements and History of Rock Music (GenEd II.B.1) (3)
MUSC 205	Women in Western Music (GenEd II.C.3) (3)

TRANSFER CREDIT POLICY

Transfer of major credits is based upon an audition, a review of transcripts, and an interview with the department chairperson. Transfer students must meet with the department chairperson immediately after matriculating.

All Music majors must complete a minimum of 24 major credits at Towson University, all of which are upper-level (300-400) courses.

All Music minors must complete a minimum of 12 credits at Towson University that meet the upper-division electives requirement in Section II of the minor in Music above.

PERFORMING ENSEMBLES

All students are encouraged to audition for performing ensembles at the beginning of each semester. (No audition is required for MUSA 150/350, Towson University Choral Society, or MUSA 160/360, Marching Band.) For further information, contact the department at 410-830-2839.

GRADUATE PROGRAM

The department offers two graduate degrees: a Master of Music in Performance and a Master of Science in Education. A certificate in Dalcroze-Orff-Kodaly is offered during the summer sessions. Entrance requirements and programs of study are available from the department's graduate coordinators and are outlined in the *Graduate Catalog*.

Department of Theatre Arts

Professors: Georgia Baker, Thomas Cascella, Maravene Loeschke, John Manlove

Associate Professors: Ralph Blasting (*Chair*), Juanita Rockwell

Assistant Professors: Thomas Casciero, Daniel Ettinger, Jay Herzog, Esiaba Irobi, Robyn Quick, Diane Sadak

Lecturer: Allison Campbell

Part-Time Faculty: Eric Beatty, Harvey Doster, Donna Fox, Maurice Gentry, Margaret Penniman, Susan Rotkowitz, Barry Smith, Bradley Thoennes, Steve Yeager

Adjunct Professor: Philip Arnoult

Distinguished Visiting Professor of Acting: John Glover

OFFICE

Center for the Arts 356, 410-830-2792, 830-2793

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www.towson.edu/theatre

PROGRAMS OF THE DEPARTMENT

The Department of Theatre Arts offers the major and minor in Theatre. Theatre majors must complete one of three tracks: Acting, Design and Production, or General Theatre.

The curriculum is designed to provide, in cooperation with other departments, a broad liberal education, as well as specialized professional training in which emphasis is placed on skills as well as knowledge.

The major in Theatre is time-consuming and physically demanding. Participation in mainstage and studio productions is part of the educational program. All Theatre majors and minors are required to participate in crew work for productions. Majors must be free to participate in theatre activities on evenings and weekends.

TRANSFER CREDIT POLICY

Transfer students majoring in Theatre are required to complete a minimum of 20 credits of theatre courses at Towson University, with at least 12 credits at the upper (300-400) level. Majors need a total of 18 upper-level theatre credits, including transfer courses.

Transfer students minoring in Theatre must complete at least 12 credits of theatre courses at Towson University, with at least 6 at the upper level. Minors need a total of 12 upper-level theatre credits, including transfer courses.

Applicability of transfer work is determined by the department chair. Prospective transfer students should schedule an appointment with the chair at their earliest opportunity.

MAJOR IN THEATRE

Theatre majors must complete 45 credit hours in theatre, at least 18 of which must be at the 300-400 level. The major program consists of 30 credits of required courses and a minimum of 15 elective credits in theatre selected from one of the three tracks. Majors should work with a faculty adviser to select courses in their track. Students must attain a grade equivalent of 2.00 or higher in courses applied to the major. The Pass grading option is not available for courses applied to the major. Students are expected to take any lower-division prerequisites before attempting the required upper-division electives.

Requirements for All Majors

Theatre Courses (30 credits)

- THEA 101 Acting I (3)
- THEA 125 Script Analysis (3)
- THEA 142 Introduction to Theatre Design (3)
- THEA 211 History of Theatre and Drama I (3)
- THEA 212 History of Theatre and Drama II (3)

- THEA 213 History of Theatre and Drama III (3)
- THEA 241 Costume, Dress and Society: Egyptian to Elizabethan (3)
or
- THEA 242 Costume Dress and Society: Elizabethan to 1950 (3)
or
- THEA 353 Costume Design I (3)
- THEA 331 Directing I (3)
- THEA 494 Theatre Production: Concentration in Scenic Elements (1)
- THEA 495 Theatre Production: Concentration in Lighting, Sound (1)
- THEA 496 Theatre Production: Concentration in Costume (1)
- THEA 499 Special Project in Theatre Research (3)

ACTING TRACK (15 credits)

The Acting Track is for students who are seeking professional theatre training. Students must have faculty permission to progress through the Acting Track and may be asked to repeat courses or take acting enrichment courses before advancing to the next level.

- THEA 105 Drill in Movement (3)
- THEA 111 Drill in Voice (3)
- THEA 202 Acting II (3)
- THEA 222 Voice for the Actor II (3)
- THEA 308 Voice and Movement Integration (3)
- THEA 309 Acting III (6)
- THEA 312 Shakespeare (3)
- THEA 315 Advanced Scene Study (3)

Enrichment Courses

Students may take any of the following with the appropriate prerequisites:

- THEA 205 Theatre Games (3)
- THEA 231 Mime and Physical Theatre Techniques (3)
- THEA 261 Acting for Musical Theatre I (3)
- THEA 301 Techniques of Comedy (3)
- THEA 332 Mime and Physical Theatre Styles (3)
- THEA 335 Movement Theatre Improvisation (3)
- THEA 423 Advanced Study in Movement Theatre (1-9)
- THEA 425 Advanced Study in Acting Style (1-9)
- THEA 487 Professional Theatre Seminar (1-12)
- THEA 489 Senior Acting Seminar (3)
- THEA 493 Advanced Study in Theatre (1-9)

DESIGN AND PRODUCTION TRACK (15 credits)

The Design and Production Track includes required courses and enrichment courses.

Required Courses (12 credits)

- THEA 201 Scenic Design I (3)
- THEA 251 Stagecraft I (3)
- THEA 255 Lighting Design I (3)
- One of the following:*
- THEA 351 Stagecraft II (3)
- THEA 355 Lighting Design II (3)
- THEA 361 Scenic Design II (3)
- THEA 453 Costume Design II (3)

Enrichment Courses (3 credits)

- THEA 107 Property Design and Construction (3)
- THEA 209 Sound Design (3)
- THEA 245 Makeup Design I (3)
- THEA 246 Makeup Design II (3)
- THEA 257 Stage Management (3)
- THEA 433 Advanced Study in Stage Management (1-9)
- THEA 443 Structural Design and Safety (3)
- THEA 445 Scene Painting (3)
- THEA 463 Period Styles for Design (3)
- THEA 480 Advanced Study in Theatre Design (1-9)
- THEA 487 Professional Theatre Seminar (1-12)

GENERAL THEATRE TRACK (15 credits)

The General Theatre Track serves two types of theatre majors: 1) those who wish to design their own programs of study within the department and 2) those who wish to specialize in areas of theatre studies which are not yet fully developed in the department (Movement Theatre, Stage Managing, Directing, Theatre Arts Administration and Musical Theatre). In addition to the standard requirements for all Theatre majors, students in the General Theatre Track will select at least 15 elective credits with the supervision of a theatre faculty adviser.

Movement Theatre

There are opportunities for majors to explore Movement Theatre in depth. Students interested in Movement Theatre are encouraged to take the following courses offered on a rotating basis:

- THEA 105 Movement Drill for the Actor (3)
- THEA 111 Voice Drill for the Actor (3)
- THEA 202 Acting II (3)
- THEA 231 Mime and Physical Theatre Techniques (3)
- THEA 332 Mime and Physical Theatre Styles (3)
- THEA 335 Movement Theatre Improvisation (3)
- THEA 423 Advanced Study in Movement Theatre (1-9)

Selections from:

- DANC 101 The Alexander Technique (3)
- DANC 109 Jazz Dance I (2)
- DANC 111 Tap I (2)
- DANC 371 Modern for Non-Majors (2)

Directing

Students who have successfully completed Directing I and who have stage managed may propose to direct a Studio Project. There are several levels of increasing support and responsibility to which student directors may progress with faculty approval.

Stage Managing

Students interested in Stage Managing have excellent opportunities to stage manage studio and then mainstage productions. Student stage managers may work with several of the directors on the faculty and with professional guest artist directors. The stage managing course is offered every fall.

Theatre Administration

Students interested in box office, house managing, publicity and other aspects of Theatre Administration have the opportunity to gain work experience through crew work, independent study, and paid positions in the College of Fine Arts and Communication. Several internships with local theatres are available. Students with this interest often complete a Business Administration minor. There are no courses in Theatre Administration in the department.

Musical Theatre

Students interested in Musical Theatre have the opportunity to perform with the Maryland Arts Festival in the summer. The department produces a mainstage musical once every two years. Some students may take private voice lessons with the Department of Music and dance classes with the Department of Dance. Students may pursue a course of study through Towson's Interdisciplinary Studies Program.

MINOR IN THEATRE

The Theatre minor requires students to take 26 credit hours in theatre. The Pass grading option is not available for courses applied to the minor. Students must attain a grade equivalent of 2.00 or higher for courses applied to the minor. At least 12 of these hours must be at the upper-division. Students are required to take one Acting course and one Design and Production course. Students must complete two of the following courses with grades of C (2.00) or better: THEA 494, Theatre Production: Concentration in Scenic Elements; THEA 495, Theatre Production: Concentration in Lighting or Sound; THEA 496, Theatre Production: Concentration in Costume. Students are encouraged to pursue an area of study within one of the department's tracks (Acting, Design and Production, or General) under the supervision of an adviser.

MEETING GENERAL EDUCATION REQUIREMENTS

The Department of Theatre Arts offers courses that are designed for students who are not majors or minors. These courses are primarily taken to satisfy General Education requirements. Please see the General Education (University Curriculum) section of this catalog.

CAREER OPPORTUNITIES

Career opportunities in theatre include professional acting, directing, technical theatre, costume, make-up, light and set design, stage managing, theatre management and movement theatre. Students preparing to teach drama in high school must carry a secondary education major, but may consider carrying a theatre major as well. Theatre alumni have also found careers in related areas such as clothing design, computer-aided design, casting agencies, business management, personnel work, promotional agencies, film and television. Many of our graduates go on to graduate school in theatre, either in preparation for professional theatre careers or college teaching.

A limited number of scholarships are available for continuing students, including the Askew Scholarship, the Charles Dutton Scholarship, the John Glover Scholarship, the C. R. Gillespie Scholarship, and the Nina E. Hughes Memorial Scholarship.

GRADUATE PROGRAM**Master of Fine Arts in Theatre**

The Master of Fine Arts in Theatre at Towson University is an experimental, self-directed graduate program designed to challenge, expand and develop participants' artistic vision. Focusing on original solo and ensemble work, it aims to reconstruct a theatre suited to the challenges of the 21st century. Our curriculum includes residencies and workshops by nationally and internationally recognized guest artists and encourages its students to collaborate on interdisciplinary and cross-cultural projects. For more information, see the *TU Graduate Catalog*; call 410-830-3851; or e-mail: theatremfa@towson.edu.





The College of Health Professions

OPTIMIZING WELLNESS FOR LIFE

Society places great value on health. The College of Health Professions accepts as its philosophical foundation the belief in the worth and dignity of individuals and their right to fulfill their potential in life. Preservation or restoration of the individual's dignity through health then becomes the basic tenet of the programs of the college. The programs promote the attainment of the highest level of wellness possible in the patients and clients who are served. Graduates of the college are committed to service to the public in maintaining wellness and to those whose well-being is threatened or altered by illness, injury or natural processes.

The programs in the college prepare graduates to assume roles in a variety of clinical, teaching and community settings. Each program integrates this professional preparation with a rigorous grounding in the liberal arts and sciences. Faculty members support students' development of professional behaviors and skills, as well as academic knowledge, problem-solving skills, and use of ethical decision making in all areas. Internships and clinical experiences are an essential part of each student's education in the health professions programs.

Programs in the college are accredited by appropriate professional and educational accrediting agencies. Graduates of the baccalaureate programs of Nursing and Occupational Therapy are eligible to sit for their respective licensure or certification examinations. In addition to providing courses for students majoring in each of the departments, each department provides courses that are available to all Towson University students.

Charlotte E. Exner, Dean
J. Ellen Eason, Associate Dean

Athletic Training
Deaf Studies
Exercise Science
Health Care Management
Health Science
 Community Health
 School and Community Health Education
 School Health – Teacher Education
Nursing
Occupational Therapy
Physical Education – Teacher Education
Pre-Medical Technology
Speech-Language Pathology and Audiology
Sport Management
Sport Studies

Department of Communication Sciences and Disorders

Professors: Rosalyn Gitter, M. Barbara Laufer (*Chair*), Joyce Reitzel, Julie Ries

Associate Professor: Diana Emanuel, Eva Hester

Assistant Professors: Celia Bassich, Sheryl Cooper, Sharon Glennen, George Lindley

Visiting Instructors: Joan Haag, Stephen Pallett

Clinical Coordinator: Karen Pottash

OFFICE

Van Bokkelen Hall 103, 410-830-3099

PROGRAMS OF THE DEPARTMENT

The Department of Communication Sciences and Disorders offers a major in Speech-Language Pathology and Audiology, and a major in Deaf Studies. These majors are broadly based in liberal arts and sciences with emphasis on information gathering, observation, and the ability to evaluate information sources. At the undergraduate level, the programs emphasize information on the development and normal processes of communication, as well as communication disorders.

The undergraduate major in Speech-Language Pathology and Audiology prepares students for graduate study. The Master of Science degree program in Speech-Language Pathology and Audiology focuses on specific communication disorders, their diagnoses and treatment. The graduate program prepares students for national/state certification and state licensure, for clinical work in public and private schools, colleges, and medical/paramedical institutions, and to pursue advanced degrees in the profession. For more information about the graduate program, see the *Graduate Catalog*.

The Deaf Studies major offers students a broad-based liberal arts education, and an opportunity for the holistic study of sign language and the people who use it. The program incorporates opportunities to interact with professionals in the field and consumers who are deaf, as well as unique internship experiences in the Baltimore-Washington area. The major prepares graduates for entry-level positions in human services professions involving people who are deaf. Graduates also pursue careers in counseling, deaf education and interpreting, or graduate study in education, counseling or rehabilitation.

The concept of "wellness" recognizes the importance of hearing, language and speech as core criteria for quality of life. The ability to communicate is primary to normal child development and to the maintenance of physical, social, mental and spiritual health of an individual. The Department of Communication Sciences and Disorders prepares professionals to provide prevention, diagnostic treatment and other support services to people of all ages, with the goal of helping individuals maintain and enhance their communicative competence throughout their life span.

PRE-MAJOR REQUIREMENTS

Enrollment in the Speech-Language Pathology and Audiology major is restricted as a function of the availability of clinical internship experiences, clinical supervisors, faculty and space. Each student must fulfill pre-major requirements before being considered for admission to the major. These requirements include declaration of major in the department as a pre-major, completion of the five required pre-major courses, and a speech, language, hearing and voice screening.

Registration with the Department

After gaining admission to the university, students are advised to contact the Department of Communication Sciences and Disorders during their first semester in order to be assigned an academic adviser to discuss the following:

1. procedures for requesting admission to the major
2. the nature of the profession
3. the requirement of a master's degree in Speech-Language Pathology or Audiology for
 - certification by the Maryland State Department of Education
 - licensure to work in hospitals and other clinics in the state of Maryland
 - certification by the American Speech-Language-Hearing Association
4. the requirement of a clinical fellowship year
5. the national certification examination

Students are advised to declare a pre-major in this area as soon as possible.

Pre-Major Courses

The following required courses must be completed before the student can be considered for admission to the major.

- SPPA 105 Speech and Language Development (3)
 SPPA 210 Phonetics of American English (3)
 PSYC 101 Introduction to Psychology (or equivalent) (3)
 Natural Lab Science (4)*
 Social/Behavior Science (3)**

The grade point average of each pre-major will be reviewed upon completion of the pre-major courses. Each candidate must have a minimum cumulative quality point average of 2.50 on a 4.00 scale for all course work, and a 2.80 in the five pre-major courses to be eligible for credentials evaluation. All eligible pre-majors are ranked by average of overall and pre-major QPA at the end of the spring semester; a maximum of 50 are selected for fall admission to major status. Evaluation of credentials for advancement to major status occurs after spring semester grades are posted, and students are notified of status by certified mail no later than June 15. Once students are admitted to major status, the program will require a minimum of four semesters to complete.

The department maintains these high standards because students must obtain a master's degree to practice speech-language pathology or audiology, and admission to graduate school is primarily dependent on academic excellence in undergraduate course work.

*i.e., BIOL 110 or 201; PHYS 211; CHEM 110 or 105

**i.e., SOCI 101; ANTH 207, 208, 209; PSYC 201, 203, 205, 211, or 230; GEOG 109; ECED 101, or EDUC 201

Speech, Language, Hearing and Voice Screening

Students majoring in Speech-Language Pathology and Audiology are expected to demonstrate proficiency in all areas of communication (reading, writing, oral) and in computational abilities. Students must have a hearing, language, speech and voice screening by clinically certified and licensed staff of the TU Speech-Language-Hearing Clinic. Students must arrange to be screened during their first semester in the program. These screenings are offered by the department on specific, announced days during the first weeks of each semester. Students exhibiting a communication disorder or a dialect of English that is not easily understood will be encouraged to seek treatment/training. It is expected that such students will show improved oral communication ability prior to enrolling in their first clinical internship course. If a pertinent medically based problem is suspected, a student may be required to obtain an otolaryngological examination and submit the written report to the department. Each student is given a copy of the department's screening policy upon declaration of pre-major.

TRANSFER STUDENT POLICIES

Transfer students who wish to major in Speech-Language Pathology and Audiology must register with the department after they have been admitted to the university. Students should arrange for their speech-language-hearing and voice screening during their first semester at Towson. Since screening for advancement to major status is *only* done at the end of a spring semester, transfer students should be admitted to the university no later than that semester.

Students must submit to the department an official transcript of any academic work pursued at *all* institutions of higher learning. All transfer credits to be applied to the major must be approved by the department. SPPA 210, Phonetics, must have been completed within the previous 10 years and all five pre-major courses must have been completed by the time of admission to the major.

Transfer students are required to take 20 hours in residence in their major area.

PREREQUISITE/SECOND BACHELOR'S PROGRAM

Admission to the graduate program in either Speech-Language Pathology or Audiology for those **without an undergraduate degree in Speech-Language Pathology or Audiology**, requires matriculation in either a 30-credit non-degree/prerequisite program or a 49-credit Second Bachelor's Degree Program. The non-degree program is specific to application to our graduate program, whereas the Second Bachelor's Degree Program prepares students for application to any graduate program. Candidates for either option should contact the Office for Non-Traditional Undergraduate Programs, 410-830-2471. In order to register for classes you must first be officially admitted to the university, and then officially declare your major with the department. Failure to begin during a fall semester will extend your program. Course work cannot be completed in one year; only a limited number of students are selected from those who have applied by March 15 each year.

MAJOR IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY

In addition to the General Education (GenEd) requirements, Speech-Language Pathology and Audiology majors must complete 45 credits in required speech-language pathology and audiology courses. In order to continue in and graduate with the Speech-Language Pathology and Audiology major, students are required to earn a grade equivalent of 2.00 or higher in all required pre-major and major courses, in addition to attaining the overall cumulative quality point average required by the university. Any student earning a grade equivalent below a 2.00 in any one major required course must petition the department for a special permit to repeat the course on a space-available basis. Those who earn a grade equivalent below a 2.00 in more than one major required course are not allowed to continue in the program. However, a master's degree is the entry certificate for the professions, and most graduate programs generally require a minimum QPA of 3.00 for admission consideration. The Pass/Fail grading option may not be applied to any SPPA course or required major course.

Pre-Major Sequence (16 credits required)

- SPPA 105 Speech and Language Development (3)
- SPPA 210 Phonetics of American English (3)
- PSYC 101 Introduction to Psychology (3)
- Natural Lab Science (4)
- Social/Behavior Science (3)

Major (43 credits required)

- SPPA 200 Anatomy and Physiology of the Auditory and Vocal Mechanism (3)
- SPPA 205 Basic Sign Language (3)
- SPPA 303 Hearing Science (3)
- SPPA 313 Language and Speech Science (3)
- SPPA 302 Speech and Language Pathology I: Phonology (3)
- SPPA 304 Speech and Language Pathology II: Language (3)
- SPPA 321 Introduction to Audiology (3)
- SPPA 325 Introduction to Aural Rehabilitation (3)
- SPPA 416 Clinical Observations and Techniques (3)
- SPPA 417 Technical Writing in Clinical Processes (3)
- PSYC 212 Behavioral Statistics (4)

Electives (9 of the 43 required; only 3 credits of special format courses SPPA 496-498 may be applied to requirement)

- SPPA 206 ASL I (3)
- SPPA 306 Speech and Language Pathology III: Organic Disorders (3)
- SPPA 307 ASL II (3)
- SPPA 341 Clinical Audiology (3)
- SPPA 345 Psychosocial Aspects of Deafness (3)
- SPPA 487 Clinical Internship (3)
- SPPA 496 Independent Study in Speech-Language Pathology and Audiology (1-4)
- SPPA 497 Directed Readings in Speech-Language Pathology and Audiology (1-4)
- SPPA 498 Proctoring in Speech-Language Pathology and Audiology (3)

MAJOR IN DEAF STUDIES

In addition to the General Education (GenEd) requirements, Deaf Studies majors must complete 46 credits in required program courses with a grade equivalent of 2.00 or higher, including 32 credits of upper-level course work inclusive of an Advanced Composition Course (GenEd I.D.). The major also requires a speech-language-hearing screening, and completion of a Criminal Background Disclosure Form.

Required Courses (38-40)

- SOCI 101 Introduction to Sociology (3) (GenEd II.B.2)
- PSYC 101 Introduction to Psychology (3) (GenEd II.C.2)
- PSYC 205 Introduction to the Helping Relationship (3)
- SPPA 105 Speech and Language Development (3)
- SPPA 205 Basic Sign Language (3) (GenEd II.B.3)
- SPPA 206 American Sign Language I (3)
- SPPA 307 American Sign Language II (3)
- SPPA 345 Psychosocial Aspects of Deafness (3)
- SPPA 311 Audition: Science and Social Impact (3)
- DFST 310 Career Exploration in Deafness (3)
- DFST 403 American Sign Language III (3)
- DFST 404 American Sign Language IV (3)
- DFST 410 Internship in Deafness (2-4)

Electives (8 credits)

- DFST 308 Fingerspelling (2)
- DFST 309/509 Introduction to Deafblindness (2)
- SPPA 496 Independent Study in SPPA (1-4)
- SPPA 497 Directed Readings in SPPA (1-4)
- SPPA 498 Proctoring (3)
- CLST 201 Introduction to Cultural Studies (3)*
- COMM 301 Nonverbal Communication (3)
- EDUC 301 Writing and Communication Skills for Teachers (3) (GenEd I.D.)
- EDUC 407 Contemporary Issues in Education (3)
- ENOL 317 Writing for Business and Industry (3)
- ENOL 318 Advanced Informational Writing (3)
- PSYC 212 Behavioral Statistics (4)
- PSYC 203 Human Development (3)
- PSYC 305 Psychology of Learning (3)
- PSYC 315 Motivation (3)
- PSYC 325 Social Psychology (3)
- PSYC 350 Personality (3)
- PSYC 361 Abnormal Psychology (3)

PSYC 403	Psychology of Infancy/Childhood (3)
SOCI 301	The Family (3)
SOCI 311	Individual and Society (3)
SOCI 343	Minority Groups (3)
SPED 30	Introduction to Special Education: K-12 (3)

*Additional CLST courses would be acceptable

STUDENT ACTIVITIES

Students are encouraged to participate in the campus chapter of the National Student Speech-Language Hearing Association. In addition, Sign Up (sign language club) welcomes student participation.



Department of Health Science

Professors: Patricia Alt, Neil Gallagher (*Chair*), Larry Olsen, Jack Osman, Susan Radius, Deitra Wengert
Associate Professor: Lillian Carter
Assistant Professors: Daniel Agley, Sharon Buchbinder, Donna Cox, Kandice Johnson, Hubert Nelson

OFFICE

Burdick Hall 141, 410-830-2388

PROGRAMS OF THE DEPARTMENT

The field of health science bridges the gap between scientific discoveries and the application of this knowledge to improve the quality of life.

The Department of Health Science offers a major in Health Science. Within Health Science, students must complete one of the following concentrations: Community Health, School and Community Health Education, or School Health — Teacher Education. The department also offers a major in Health Care Management, and a track in Pre-Medical Technology.

MAJOR IN HEALTH SCIENCE

Health Science majors should contact the department chair to receive information concerning the programs and to be assigned an adviser. All students must meet with their adviser each semester.

In addition to completing major requirements, students must complete the General Education requirements. A minimum grade equivalent of 2.00 or higher is necessary for all required courses.

TRANSFER CREDIT POLICY

All Health Science majors must complete a minimum of 30 credits toward the major at Towson University, with at least 15 credits at the upper-level (300-400), including the advanced writing course (GenEd I.D.).

SCHOOL AND COMMUNITY HEALTH EDUCATION/COMMUNITY HEALTH CONCENTRATIONS

Health education is both a science and an art that deals with the complexities of human behavior with the expressed purpose of promoting healthy behaviors. In order to develop the competencies necessary to be an effective health educator, students need a foundation built on principles derived from behavioral, biomedical and social sciences, as well as education. The expertise common to all health education specialists, regardless of the setting in which they practice, is the ability to apply teaching/learning principles to health/illness issues.

In the junior year of this major, students must decide if they want to participate in a community health internship or a student teaching experience. Students selecting the student teaching experience will receive certification to teach K through 12. The students who select School Health Teacher Education must meet the requirements for admission to the professional education program and to student teaching. Prior to student teaching, individuals must pass the Praxis I test. Students should schedule this examination during their junior year. Transfer students should plan to take additional semesters of study.

Curriculum and Planning (HLTH 315) fulfills the GenEd I.D. advanced level writing course requirement.

GenEd requirements include ENGL 102, BIOL 110, SOCI 101, PSYC 101, CHEM 100 or 105, HLTH 101 and HLTH 315.

SCHOOL HEALTH — TEACHER EDUCATION CONCENTRATION

Requirement for Admission to Teacher Education Program

All students applying for admission to a Teacher Education program at Towson University are required to complete a Criminal Background Disclosure Form. This form is to be notarized and sent to the director of CASE to be kept on file. Please read the section on Admission to Teacher Education Programs in the College of Education section.

Requirement for Student Teaching

Effective fall 1999, all pre-service students in Teacher Education programs at Towson University whose program of study requires an intensive/extensive internship or student teaching experience in a public or private school setting (pre-K through 12) will be required to undergo a criminal background check before entering this experience. The criminal background check must be filed with the director of CASE. Please read the section on Admission to Student Teaching in the College of Education section.

SUGGESTED COURSE SEQUENCE FOR HEALTH SCIENCE MAJORS

The following are the courses and recommended sequence for Health Science majors in School Health — Teacher Education, Community Health, and School and Community Health concentrations.

Freshman Year

First Semester (16 credits)

HLTH 101 Wellness for a Diverse Society (3)
BIOL 110 Contemporary General Biology (4)
PSYC 101 General Psychology (3)
SOCI 101 Introduction to Sociology (3)
ENGL 102 Writing for a Liberal Education (3)

Second Semester (17 credits)

CHEM 105 Chemistry for Allied Health Professions (4)
COMM 131 Fund. of Speech Communication (3)
PHEA xxx Physical Education Elective (1)
Non-Western Culture Course (3) GenEd II.D.
GenEd I.B (3)
GenEd (not HIST) II.C.I (3)

Sophomore Year

First Semester (16 credits)

BIOL 213 Human Anatomy and Physiology I (4)
HLTH 103 Emergency Medical Care (3)
HLTH 222 Foundations of Health Education and Health Behavior (3)
HLTH 207 Health Care in U.S. (3)
GenEd I.C. (3)

Second Semester (16 credits)

BIOL 214 Human Anatomy and Physiology II (4)
PSYC 201 Educational Psychology (3)
HIST 145 History of the U.S. to Mid-19th Century (3)
or
HIST 146 History of the U.S. since Mid-19th Century (3)
HIST 145 or HIST 146 can be used to fulfill GenEd II.B.1
GenEd II.C3 (3)
HLTH Elective (3)

Junior Year

First Semester (15 credits)

HLTH 204 Nutrition/Weight Control for Consumer (3)
HLTH 208 Mental Health/Stress Management/Crisis Intervention (3)
HLTH 315 Curriculum and Planning in Health Educ. (3)
GenEd I.E. (3)
Elective (3)

The following semesters are listed according to the concentration selected by students. Selection of a concentration must be declared with the department chairperson before the second semester of the junior year. Requirements differ based on the concentration selected. See the department chairperson for details.

Junior Year — School Health—Teacher Education (Students must take the Praxis I test.)

Second Semester (15 credits)

HLTH 425 Instruction Methods in Health (3)
HLTH 401 Teaching About Drugs and Sex (3)
HLTH 435 Epidemiological Basis for Disease (3)
SCED 460 Teaching Reading in Secondary School (3)
SCED 341 Principles of Secondary Education (3)

Junior Year — School and Community Health Education (Students must take the Praxis I test.)

Second Semester (15 credits)

HLTH 425 Instruction Methods in Health (3)
HLTH 401 Teaching About Drugs and Sex (3)
HLTH 435 Epidemiological Basis for Disease (3)
SCED 460 Teaching Reading in Secondary School (3)
SCED 341 Principles of Secondary Education (3)

Junior Year — Community Health

Second Semester (15 credits)

HLTH 425 Instruction Methods in Health (3)
HLTH 401 Teaching About Drugs and Sex (3)
HLTH 435 Epidemiological Basis for Disease (3)
HLTH xxx Elective (3)
HLTH xxx Elective (3)

Senior Year — School Health — Teacher Education (Students must take the Praxis I test.)

First Semester (14 credits)

HLTH 432 Measurement and Evaluation in Health Education (3)
HLTH 426 Methods in Elementary School Health (2)
EDUC 401 Foundations of Education (3)
SPED 301 Introduction to Special Education (3)
HLTH 430 Organization Implementation/Management of Health Programs (3)

Senior Year — School and Community Health Education (Students must take the Praxis I test.)

First Semester (14 credits)

HLTH 432 Measurement and Evaluation in Health Education (3)
HLTH 426 Methods in Elementary School Health (2)
EDUC 401 Foundations of Education (3)
SPED 301 Introduction to Special Education (3)
HLTH 430 Organization Implementation/Management of Health Programs (3)

Senior Year — Community Health

First Semester (15 credits)

HLTH 432 Measurement and Evaluation in Health Education (3)
EDUC 401 Foundations of Education (3)
HLTH 430 Organization Implementation/Management of Health Programs (3)
HLTH xxx Elective (3)
HLTH xxx Elective (3)

Senior Year — School Health—Teacher Education (Students must have passed the Praxis I test.)

Second Semester (12 credits)

HLTH 388 Student Teaching in Secondary Education (12)

Senior Year — School and Community Health Education (Students must have passed the Praxis I test.)

Second Semester (12 credits)

HLTH 387 Student Teaching in Secondary Education (6)
 HLTH 421 Fieldwork in Community Health (6)

Senior Year — Community Health**Second Semester (12 credits)**

HLTH 422 Fieldwork in Community Health (12)

MAJOR IN HEALTH CARE MANAGEMENT

The Health Care Management curriculum is designed to provide students with a comprehension of U.S. health care organizations, a public health orientation including epidemiological concepts and tools, and the math language and computer competencies for research development, organizational management and/or program evaluation. Depending on a student's interest, graduate training in health administration is recommended after completing this course of study.

Required Prerequisites (21 credits)

ACCT 201 Accounting Principles I (3)
 ACCT 202 Accounting Principles II (3)
 ECON 201 Microeconomic Principles (3)
 ECON 202 Macroeconomic Principles (3)
 HLTH 101 Current Health Problems (3)
 MATH 231 Basic Statistics (3)
 SOCI 101 Introduction to Sociology (3)

Required Courses**Health Care Management (27 credits)**

HLTH 207 Health Care in the U.S. (3)
 HLTH 305 Health Care Administration (3)
 HLTH 311 Chronic and Communicable Disease (3)
 HCMN 415 Finance and Organization of Health Care in the U.S. (3)
 HCMN 421 Legal and Ethical Issues in Health Administration (3)
 HCMN 495 Internship (12)

Business Core (12 credits)

LEGL 225 Legal Environment of Business (3)
 FIN 331 Financial Management (3)
 MNGT 361 Management and Organization Theory (3)
 MKTG 341 Principles of Marketing (3)

Interdepartmental Courses (12-13 credits)

COSC 111 Information and Technology for Business (3)
 ECON 339 Economics of Health (3)
 ENGL 317 Writing for Business and Industry (3)
 Laboratory Science Elective (3,4)

Internship-HCMN 495 (12 credits)

Students have the opportunity to gain hands-on, practical work experience in this full semester "capstone" course. Students will be able to apply the knowledge and skills they have acquired in managing and delivering health services.

Students must apply for the internship in the semester prior to enrolling in HCMN 495. The internship coordinator will assign students to a placement site based on the acceptability of student to agency and the acceptability of agency to student.

HONORARY SOCIETY

Eta Sigma Gamma, the national professional honorary society in health education, has established the Beta Zeta Chapter in the Department of Health Science. The purpose of the organization is to elevate standards, ideals and ethics of the profession. For information concerning Beta Zeta, contact the chair of Health Science, 410-830-2378.

HEALTH SCIENCE RECOGNITION AWARD

This award is presented in the spring commencement ceremony to outstanding undergraduate Health Science majors.

GRADUATE PROGRAM

The department offers a Master of Science degree with concentrations in Health Administration, Community Health Education, and School Health Education. For more information, see the *Graduate Catalog*.

PRE-MEDICAL TECHNOLOGY TRACK

A career in medical technology can be both stimulating and rewarding, since the field is rapidly growing with advances in medical science. The medical technologist works under the supervision of a pathologist in a laboratory and performs tests on which doctors rely for assistance in diagnosing or treating diseases.

Towson University's Pre-Medical Technology Program provides the liberal arts and science basis for continuation of the degree program at the University of Maryland at Baltimore (UMAB) or Salisbury State University. Pre-Medical Technology students are required to complete the GenEd requirements before transferring to another senior institution.

Students who intend to transfer to UMAB to complete the Bachelor of Science degree in Medical Technology must complete the following during the first two years at Towson.

Biology

BIOL 110 General Contemporary Biology (4)
 BIOL 213 Anatomy and Physiology I (4)
 BIOL 214 Anatomy and Physiology II (4)
 BIOL 315 Medical Microbiology (4)

Chemistry

CHEM 101 General Chemistry I (4)
 CHEM 102 General Chemistry II (4)
 CHEM 330 Organic Chemistry (5)

Computer Science

COSC 165 Visual Basic (3)

English

ENGL 102 Writing for a Liberal Education (3)
 ENGL xxx English Elective (3)

Mathematics

MATH 111 Algebra for Applications (3)
 MATH 327 Elementary Biostatistics (4)

Humanities Electives (3 credits)

Select courses from history, literature, philosophy, art and music. In addition, credit for foreign language will be given only upon completion of either the first elementary year or an advanced course.

Behavior and Social Science Electives (6 credits)

Select from economics, political science, urban studies, sociology, geography, anthropology, African-American studies or psychology.

Electives (8 credits)

CHEM 331 Organic Chemistry II (5)
 PHYS 100 Understanding Physics (3)
 or
 PHYS 102 Introduction to Physics (3)
 BIOL 401 Genetics (4)

Students should make application to UMAB upon completing 45 credits at Towson. See the Pre-Medical Technology coordinator for application information, Burdick Hall, room 141.

Department of Kinesiology

Professors: Mary Blann, Andrea Boucher, Ellen Eason, Raymond Stinar (*Chair*)

Associate Professors: Ned Britt, Margaret Faulkner, William Forbes, Robert Slevin, David Zang

Assistant Professors: Phil Albert, Vincent Angotti, Li Chen, Paul Downing, Joanne Dusel, Gail Parr, Carl Runk, Karla Kubitz

Instructor: Susan Truitt

Part-time Faculty: Kenneth Badders, Moria Blake, Tiffany Lipsey, Terry O'Brien, Ronald Reich, Michael Weglein, Andrea Worthington

OFFICE

Towson Center 200, 410-830-2376

PROGRAMS OF THE DEPARTMENT

The Department of Kinesiology offers five academic majors, namely Physical Education, Athletic Training, Sport Management, Exercise Science, and Sport Studies. The Sport Studies major provides concentrations in Psychology of Sport and Sport Communication.

In addition, the Department of Kinesiology offers KNES 235 Individualized Fitness, as an approved course for GenEd II.B.3 - American Experience: Contemporary Issues. The Department of Kinesiology also offers a series of 2-credit activity courses. These courses emphasize a conceptual approach through the development of skills, knowledge and fitness necessary to lead an active life.

Some of the courses offered in this series are as follows:

- PHEA 205 Self Defense, Protection and Personal Safety
- PHEA 207 Rhythmic Aerobics
- PHEA 209 Ballroom Dance
- PHEA 211 Cardiovascular Movement: Jogging, Cycling and In-Line Skating
- PHEA 215 Recreational Sports: Bowling, Billiards and Golf
- PHEA 217 Invasion Sports: Basketball, Lacrosse and Soccer
- PHEA 221 Net Games: Badminton, Tennis and Volleyball
- PHEA 223 Wall Games: Handball, Racquetball and Squash

MAJOR IN PHYSICAL EDUCATION

This program prepares competent teachers in Physical Education for elementary and secondary schools. Graduates are certified to teach at the elementary and secondary levels. A planned sequence of courses is designed to provide the student with skills and leadership experience needed to direct a balanced program in class, intramural and extramural activities.

Students majoring in Physical Education must complete 27 credits in required professional theory courses, 12 credits of courses in required professional laboratory skill courses, and 12 credits of elective courses in Kinesiology. Additionally, the student must complete 48-49 credits in courses required by the Maryland State Department of Education for teacher certification. Students must complete all required and prerequisite courses for the major with a grade equivalent of 2.00 or higher. In addition, the following professional education courses must be completed with a grade equivalent of 2.00 or higher and a cumulative QPA of 2.75: Educational Psychology, PSYC 201; Survey of Educational Programs, SCED 319; Teaching PE in Elementary School, KNES 324; Teaching PE in Secondary School, KNES 325; Foundations of Education, EDUC 401; and Adaptive Physical Education, KNES 423.

Effective fall 1999, all pre-service students in Teacher Education programs at Towson University whose program of study requires an intensive and extensive internship or student teaching experience in a public or private school setting (pre-K through 12) will be required to undergo a criminal background

check *before* beginning this experience. The criminal background check must be filed with the director of CASE. Students enrolled in the Physical Education major must complete the criminal background check prior to enrollment in any of the following courses: KNES 324 Teaching Physical Education in the Elementary School, KNES 325 Teaching Physical Education in the Secondary School, and KNES 423 Adaptive Physical Education.

A certification in Health Science is available for students who wish to be certified to teach in physical education and health education at the elementary and secondary levels. Students are advised that the Department of Health Science is responsible for establishing the health-education requirements for this program. As such, students interested in pursuing this option must contact the chair of Health Science for additional and current information.

Professional Theory Courses (27 credits)

- KNES 298 History and Philosophy of Physical Education (3)
- KNES 303 Organization and Administration of Physical Education (3)
- KNES 309 Tests and Measurements in Physical Education (3)
- KNES 311 Biomechanics (3)
- KNES 313 Physiology of Exercise (3)
- KNES 315 Care and Prevention of Athletic Injuries (3)
- KNES 324 Teaching Physical Education in Elementary School (3)
- KNES 325 Teaching Physical Education in Secondary School (3)
- KNES 423 Adaptive Physical Education (3)

Professional Laboratory Skills (12 credits)

Professional laboratory skill courses (KNES 111-284) provide instruction in the basic activities appropriate for a teacher of physical education, including acquisition of skills and methods of instruction. Specific courses are required in the following categories:

- Team Sports – six courses
- Individual/dual activities – six courses
- Aquatics – 1 credit
- Dance – two courses
- Elementary Activities – two courses

Course outlines and prerequisites are available in the Department of Kinesiology.

A list of required professional laboratory skill courses follows:

- KNES 113 Badminton I (0.5)
- KNES 203 Basketball I (0.5)
- KNES 207 Field Hockey I (0.5)
- KNES 156 Gymnastics I (1)
- KNES 215 Lacrosse I (0.5)
- KNES 221 Soccer I (0.5)
- KNES183 Ballroom Dance, Folk and Square (1)
- KNES 223 Softball I (0.5)
- KNES165 Basic Swimming (1)
- KNES 179 Tennis I (0.5)
- KNES 149 Track and Field I (0.5)
- KNES 228 Volleyball I (0.5)
- KNES 151 Wrestling (0.5)
- KNES 239 Physical Fitness Activities (1)
- KNES 279 Techniques of Teaching Creative Movement (1)
- KNES 283 Physical Education Activities for the Young Child (K-3) (1)
- KNES 284 Physical Education Activities for the Intermediate Grades (4-6) (1)

Electives (12 credits)

Twelve credits in Kinesiology theory and professional laboratory skills courses from the remaining courses available in the department are required.

Required Teacher Education Certification Courses (48-49 credits)

- COMM 131 Fundamentals of Speech Communication (3)
- BIOL 110 Contemporary General Biology (4)

PHYS 202	General Physics B (5)
	or
CHEM 105	Chemistry for Allied Health Professions I (4)
HLTH 101	Wellness in a Diverse Society (3)
PSYC 101	Introduction to Psychology (3)
PSYC 201	Educational Psychology (3)
BIOL 213	Human Anatomy and Physiology I (4)
BIOL 214	Human Anatomy and Physiology II (4)
SCED 319	Survey of Education (3)
EDUC 401	Foundations of Education (3)
KNES 392	Elementary Student Teaching (7)
KNES 394	Secondary Student Teaching (7)

MAJOR IN ATHLETIC TRAINING

The four-year Athletic Training Education Program is designed for students who are interested in an allied health care profession specializing in the health care of athletes. Athletic trainers function as integral members of the athletic health care team in secondary schools, colleges and universities, sports medicine clinics, professional sports programs, and other athletic health care settings. The athletic trainer specializes in the prevention, evaluation, management and rehabilitation of athletic injuries.

Athletic Training is a screened major. In order to receive an application for the program, students must attend an orientation session. The purpose of this session is to explain the application process, program requirements and the National Athletic Trainers Association (NATA) certification process. Students are accepted into this program as freshmen. Therefore, students should initiate the application process at the same time as application to the university. Admission to the university does not guarantee admission to the Athletic Training Education Program.

The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Satisfactory completion of the program qualifies students as candidates for the NATA certification examination.

Required KNES Courses (42 credits)

KNES 235	Individualized Fitness (3)
KNES 291	Introduction to Athletic Training (1)
KNES 309	Tests and Measurements (3)
KNES 311	Biomechanics (3)
KNES 313	Physiology of Exercise (3)
KNES 315	Care and Prevention of Athletic Injuries (3)
KNES 363	Nutrition for Sport and Exercise (3)
KNES 381	Basic Clinical Athletic Training I (1)
KNES 382	Basic Clinical Athletic Training II (1)
KNES 385	Intermediate Clinical Athletic Training I (1)
KNES 386	Intermediate Clinical Athletic Training II (1)
KNES 388	Advanced Clinical Athletic Training I (1)
KNES 389	Advanced Clinical Athletic Training II (1)
KNES 415	Advanced Care and Prevention of Athletic Injuries (3)
KNES 417	Organization and Administration of Athletic Training (3)
KNES 427	Therapeutic Exercise in Athletic Training (3)
KNES 428	Therapeutic Modalities in Athletic Training (3)
KNES 429	Physical Assessment in Athletic Training (3)
KNES 431	Seminar in Athletic Training (2)

Elective KNES Courses

12 credits selected from KNES upper-division courses

Additional Required Courses (25-26 credits)

BIOL 110	Contemporary General Biology (4)
BIOL 213	Anatomy and Physiology I (4)
BIOL 214	Anatomy and Physiology II (4)
PHYS 202	General Physics B (5)
	or
CHEM 105	Chemistry for Allied Health Professionals (4)
HLTH 101	Wellness in a Diverse Society (3)
HLTH 103	Emergency Medical Care (3)
PSYC 101	Introduction to Psychology (3)

MAJOR IN EXERCISE SCIENCE

The major in Exercise Science is intended to examine the relationship between exercise and human performance and the role of physical activity in the promotion of healthy lifestyles. Exercise science consists of several overlapping disciplines, including biomechanics, exercise physiology and biochemistry, growth and development, exercise nutrition, measurement and evaluation, and exercise psychology. The program of study is designed to provide an effective blend of classroom instruction and practical experience. The program is intended to prepare qualified individuals for careers in clinical, corporate, commercial, and/or community exercise/wellness settings as well as to prepare students for graduate study in related fields.

Required Kinesiology Courses (33 credits)

KNES 235	Individualized Fitness (3)
KNES 309	Tests and Measurements (3)
KNES 311	Biomechanics (3)
KNES 313	Physiology of Exercise (3)
KNES 315	Care and Prevention of Athletic Injuries (3)
KNES 361	Exercise Psychology (3)
KNES 363	Nutrition for Exercise and Sport (3)
KNES 365	Exercise Testing and Prescription (3)
KNES 369	Practicum in Exercise Science (3)
KNES 395	Kinesiology Internship (3)
KNES 469	Research Methods in Exercise Science (3)

Kinesiology Electives (12 credits)

12 credits selected from KNES upper-division courses

Additional Required Courses (27 credits)

BIOL 110	Contemporary General Biology (4)
BIOL 213	Human Anatomy and Physiology I (4)
BIOL 214	Human Anatomy and Physiology II (4)
CHEM 105	Chemistry for Allied Health Professions I (4)
PHYS 202	General Physics B (5)
PSYC 101	Introduction to Psychology (3)
HLTH 101	Wellness for a Diverse Society (3)

MAJOR IN SPORT MANAGEMENT

The program in Sport Management is designed to address sport's unique position in American business and to prepare students for careers in athletic and recreation administration, the fitness industry, college and professional sports and retail marketing.

Required Kinesiology Courses (21 credits)

KNES 235	Individualized Fitness (3)
KNES 333	Sport Management (3)
KNES 353	Sport and Society (3)
KNES 355	Psychology of Sport (3)
KNES 393	A World History of Sport to 1900 (3)
	or
KNES 451	History of American Sport (3)
KNES 395	Kinesiology Internship (3)
KNES 453	Sport Administration (3)

Kinesiology Electives

Students must choose 15 credits from KNES and selected business courses.

Required Courses

OPTION I (18 credits)

(Fulfills requirements for minor in Business Administration)

ACCT 201	Accounting Principles I (3)
ACCT 202	Accounting Principles II (3)
ECON 202	Macroeconomics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MGNT 361	Principles of Management (3)

OPTION II Required Sport Management (18 credits)

(Does not fulfill requirements for minor in Business Administration)

- ACCT 201 Accounting Principles I (3)
- ACCT 202 Accounting Principles II (3)
- MKTG 341 Principles of Marketing (3)
- MKTG 345 Advertising Management (3)
- MNGT 361 Management and Organizational Theory (3)
- MNGT 381 Human Resource Administration (3)

Additional Required Courses Option I and Option II (12-15 credits)

- COMM 131 Fundamentals of Speech Communication (3)
- COSC 111 Information and Technology for Business (3)
- PSYC 101 Introduction to Psychology (3)
- ECON 201 Microeconomics (3)
- MATH 231 Basic Statistics (3) (Option I only)

MAJOR IN SPORT STUDIES

The Sport Studies Program focuses on the current knowledge base and interpretations of human interaction in sport. The program provides a range of interdisciplinary study options leading to preparation for graduate study or employment in sports-related positions. The program includes concentrations in Psychology of Sport and Sport Communication.

PSYCHOLOGY OF SPORT CONCENTRATION

The program in Psychology of Sport is designed to address aspects of psychological study related to athletic performance, exercise and physical activity. Students selecting this concentration must also declare a minor in Psychology.

Required KNES Courses (18 credits)

- KNES 235 Individualized Fitness (3)
- KNES 353 Sport and Society (3)
- KNES 355 Psychology of Sport (3)
- KNES 393 World History of Sport to 1900 (3)
- or
- KNES 451 History of American Sport (3)
- KNES 395 Kinesiology Internship (3)
- KNES 433 Applied Sport Psychology (3)

Kinesiology Electives

Students must choose 15 credits from KNES and selected psychology courses.

Required Courses (23 credits)

- PSYC 101 Introduction to Psychology (3)
- PSYC 212 Behavioral Statistics (4)
- PSYC 314 Experimental Psychology (4)

Select from the following to complete 23 credits. The elective courses must include at least one course from each of the following areas: Human Development, Clinical-Social, Biophysiology and Learning Cognition.

I. Human Development (3 credits)

- PSYC 330 Psychology of Individual Differences (3)
- PSYC 403 Psychology of Infancy and Childhood (3)
- PSYC 404 Adolescent Psychology (3)
- PSYC 405 Psychology of Aging (3)
- PSYC 447 Sex Differences: Psychological Perspective (3)
- PSYC 451 Introduction to the Exceptional Child (3)
- PSYC 467 Midlife Development (3)

II. Clinical-Social (3 credits)

- PSYC 311 Behavioral Modification (3)
- PSYC 325 Social Psychology (3)
- PSYC 327 Industrial Psychology (3)
- PSYC 341 Environmental Psychology (3)
- PSYC 350 Personality (3)
- PSYC 361 Abnormal Psychology (3)

- PSYC 409 Organizational Psychology (3)
- PSYC 411 Tests and Measurements (3)
- PSYC 421 Applications of Behavioral Principles of Family and Classroom Environment (3)
- PSYC 431 Group Dynamics (3)

III. Biopsychology (3 credits)

- PSYC 317 Sensation and Perception (3)
- PSYC 460 Ethology and Comparative Psychology (3)
- PSYC 465 Physiological Psychology (3)

IV. Learning Cognition (3 credits)

- PSYC 305 Psychology of Learning (3)
- PSYC 315 Motivation (3)
- PSYC 461 Cognitive Psychology (3)

Additional Required Courses (7 credits)

- COMM 131 Fundamentals of Speech Communication (3)
- BIOL 110 Contemporary General Biology (4)

SPORT COMMUNICATION CONCENTRATION

The program in Sport Communication is designed to prepare students for careers in sports information, public relations, and the broadcast and print media.

Required KNES Courses (18 credits)

- KNES 235 Individualized Fitness (3)
- KNES 353 Sport and Society (3)
- KNES 355 Psychology of Sport (3)
- KNES 393 World History of Sport to 1900 (3)
- or
- KNES 451 History of American Sport (3)
- KNES 395 Kinesiology Internship (3)
- KNES 437 Sport in the Media (3)

Kinesiology Electives

Students must choose 15 credits from selected KNES courses.

Required Electronic Media and Film and Mass Communication and Communication Studies Courses (24 credits)**Required Core (15 credits)**

- COMM 115 Introduction to Interpersonal Communication (3)
- COMM 315 Business and Professional Communication (3)
- *MCOM 125 Introduction to Public Relations and Advertising (3)
- *EMF 140 Introduction to Electronic Media (3)
- *MCOM 151 Introduction to Journalism (3)
- MCOM 255 Newswriting (3)
- *Choose 2 of 3 courses. Note: MCOM 151 is a prerequisite for MCOM 255.

MCOM/COMM/EMF Electives (9 credits)

- COMM 331 Advocacy and Argument (3)
- MCOM 214 Principles of Advertising (3)
- EMF 265 Radio Production I (3)
- EMF 271 Television Studio Production I (3)
- EMF 273 Electronic Field Production (3)
- MCOM 356 Feature Writing (3)
- MCOM 357 Public Relations Writing (3)
- EMF 365 Radio Production II (3)
- MCOM 375 Broadcast Performance (3)
- EMF 377 Broadcast/Film Writing (3)
- EMF 381 Broadcast Journalism (3)
- MCOM 411 Communication Process (3)
- MCOM 460-469 Internship (3)
- EMF 476 Special Topics in Electronic Media (3)

Additional Required Course (3 credits)

- COMM 131 Fundamentals of Speech Communication (3)

PROFESSIONAL PREPARATION ELEMENTARY EDUCATION

The Department of Kinesiology offers three courses for students majoring in Early Childhood or Elementary Education. They are KNES 281-282, Physical Education for Elementary Education Students I, II and KNES 324, Teaching Physical Education in the Elementary School. KNES 281-282 are prerequisites for KNES 324.

ATHLETIC COACHING AREA OF FOCUS

Designed for the non-major student, this area of focus develops coaching skills and attributes that will foster leadership qualities necessary for coaching in community recreation programs, intramural and extramural activities and varsity sports.

Students interested in this option should contact the department for further information.

Required Core (12 credits)

KNES 235	Individualized Fitness (3)
KNES 315	Care and Prevention of Athletic Injuries (3)
KNES 331	Principles of Coaching (3)
KNES 395	Kinesiology Internship (3)

Electives (6 credits)

KNES 337	Advanced Techniques and Analysis of Coaching in Selected Sports (3)
KNES 353	Sport and Society (3)
KNES 355	Psychology of Sport (3)
KNES 303	Organization and Administration of Physical Education (3)
	or
KNES 453	Sport Administration (3)

TRANSFER CREDIT POLICY

Kinesiology transfer credits will be evaluated by the department on an individual basis. A minimum of one-half of the credit hours required in the major (KNES) must be completed at Towson University. A grade equivalent of 2.00 or higher must be earned in all required courses and all prerequisites for required courses.

Department of Nursing

Professor: Cynthia Kielinen (*Chair*)

Associate Professors: Joanna Basuray, Janet Cogliano, Frances Damratowski, Deborah Greener, Mary Lashley, Dianne Taylor

Assistant Professors: Christina Barrick, Sharon Eifried, Marilyn Halstead, Susan Immelt, Joan Jordan, Lena Lee, Samson Omotosho

Visiting Assistant Professors: Vicky Kent, Kim McCarron

Part-time Faculty: Beverly Bye, Carol Gallo, Mary Lou Gercke, Katharine Parris, M. Jane Trainis, Karen Williams-Cooper

OFFICE

Burdick Hall 123, 410-830-2068 or 2069

Recorded Information: 410-830-2067

Admissions Coordinator: 410-830-4170

PROGRAMS OF THE DEPARTMENT

Nursing is both an art and a science with an evolving body of specialized knowledge derived from nursing research, as well as from the synthesis of knowledge from related disciplines. Nursing, independently or collaboratively, guides and influences the behavior of others in their efforts toward optimizing the health status of individuals, families, groups and communities.

Towson offers a program in professional nursing leading to the Bachelor of Science degree with a major in Nursing. The nursing curriculum includes courses in the liberal arts, the sciences and nursing. The curriculum, designed for basic and registered nurse students, prepares the graduate to accept responsibility and accountability for the care of clients and families in a variety of health care settings, to function in beginning leadership roles, and to be consumers of and participants in nursing research. Students are also provided with the foundation for graduate study in nursing.

The nursing program is approved by the Maryland Board of Nursing, accredited by the National League for Nursing, and has preliminary approval for accreditation by the Commission on Collegiate Nursing Education. Basic students graduating from the Nursing major are eligible to write the National Council Licensure Examination for Registered Nurses (NCLEX-RN). The Department of Nursing holds membership in the American Association of Colleges of Nursing, the Council of Baccalaureate and Higher Degree Programs of the National League for Nursing, Commission on Collegiate Nursing Education, and the Council on Collegiate Education in Nursing of the Southern Regional Education Board.

MAJOR IN NURSING: BASIC STUDENTS

The university requires a minimum of 120 credits for graduation. However, established departmental requirements must also be completed for graduation with a Nursing major. This necessitates completion of more than 120 credit hours for most students enrolled in the department.

Students must complete all prerequisite course requirements prior to beginning the major. Proper course planning and good advising are key to timely admission to the major and completion of the program in four years. The departmental brochure contains a recommended course plan for students for the entire four-year degree. Pre-nursing majors may request a nursing adviser who will help them to plan their academic program prior to admission to the major. Students can contact the department for specific information and to be assigned to an adviser. Once the student is admitted to the Nursing major, the nursing courses must be completed in a sequential pattern because each course is a foundation for the subsequent course. Part-time study options are available.

Pre-nursing students demonstrating competencies covered in MATH 115 (as determined by the Department of Mathematics) may enroll in an alternative offering of one of the following: MATH 116, MATH 119, or MATH 273, in order to meet the mathematics requirement. Placement in the particular course is determined by the Department of Mathematics.

Because requirements may be revised from time to time, it is the student's responsibility to make certain that he or she is working with the most current materials. Contact the department for assistance with program planning.

Requirements for the Major

In addition to the General Education (GenEd) requirements, Nursing majors must complete the following prerequisites prior to beginning major course work. Several of these courses can also meet GenEd requirements. (*GenEd)

- *ENGL 102 Writing for a Liberal Education (3)
- *BIOL 110 Contemporary General Biology (4)
- BIOL 213 Human Anatomy and Physiology I (4)
- BIOL 214 Human Anatomy and Physiology II (4)
- BIOL 215 Fundamentals of Microbiology (4)
- or
- BIOL 315 Medical Microbiology (4)
- *CHEM 105 Chemistry for Allied Health Professions I (4)
- *CHEM 106 Chemistry for Allied Health Professions II (4)
- HLTH 331 Nutrition for Health Professionals (3)
- *MATH 115 Basic Mathematics for Sciences (3)
- *PSYC 101 Introduction to Psychology (3)
- *PSYC 203 Human Development (3)
- *SOCI 101 Introductory Sociology (3)

REQUIRED COURSE SEQUENCE FOR THE NURSING MAJOR

Junior Year

First Semester

- NURS 331 Professional Nursing I: Introduction (2)
- NURS 341 Alterations in Health (3)
- NURS 343 Pharmacotherapeutic Agents (2)
- NURS 345 Technology and Therapeutic Interventions (2)
- NURS 347 Health Assessment Across the Life Span (3)
- NURS 351 Nursing Practice I: Health Promotion Across the Life Span (4)

Second Semester

- NURS 353 Nursing Practice II: Adults (5)
- NURS 355 Nursing Practice III: Childbearing Families (5)
- NURS 404 Health Care: An Interdisciplinary Approach (3)
- or
- NURS 406 Multicultural Health Care (3) (GenEd)
- MATH 231 Basic Statistics (3)
- or
- MATH 237 Biostatistics (3-4)
- or
- PSYC 212 Behavioral Statistics (4)

Senior Year

First Semester

- NURS 431 Professional Nursing II: Research (2)
- NURS 451 Nursing Practice IV: Psychiatric and Mental Health (5)
- NURS 453 Nursing Practice V: Children (5)
- NURS 404 Health Care: An Interdisciplinary Approach (3)
- or
- NURS 406 Multicultural Health Care (3) (GenEd)

Second Semester

- NURS 433 Professional Nursing III: Issues (Advanced Writing GenEd) (3)
- NURS 455 Nursing Practice VI: Community Health (5)
- NURS 457 Nursing Practice VII: Clinical Practicum (2)
- NURS 459 Nursing Practice VIII: Leadership and Management (4)

MAJOR IN NURSING FOR REGISTERED NURSE STUDENTS

Registered nurses seeking the baccalaureate degree with a major in Nursing are eligible to receive credit for prior learning. The department participates in a statewide Validation Model. Because RN students represent a variety of learning and practice experiences, every effort is made to design an individual program that will meet the learning needs of the student while, at the same time, offering a curriculum which provides the foundation for nursing practice at the baccalaureate level. The baccalaureate nursing program builds upon the student's previous learning, ensures a broad base in the liberal arts, and offers nursing courses that are designed to enhance professional nursing practice. RNs are advised to contact the department for assistance with admission and program planning.

TRANSFER AND SECOND DEGREE STUDENTS

Transfer students and those seeking a second baccalaureate degree are admitted to the university according to university policies and procedures. Generally, transfer students must complete all required nursing courses of the department at Towson University. Nursing courses completed in another baccalaureate nursing program are evaluated individually for equivalence by the department.

ADMISSION TO THE NURSING MAJOR

Before students can be considered for admission to the Nursing major, they must be admitted to or have applied for admission to the university. Transfer students must adhere to the university's transfer policies.

Admission to the Nursing major is granted only by the department. Admission to the university does not constitute or guarantee admission to the major. Students are admitted in both the fall and spring semesters of each academic year. The application for admission to the Nursing major is available from the department office. It is to be returned to the admissions coordinator, Department of Nursing, by January 15 for fall admission and August 15 for spring admission. Because the process requires official transcripts from all educational institutions that students have attended, students should allow sufficient time for receipt of transcripts in the department by the due date.

EARLY ADMISSION POLICY

Pre-nursing students who have completed their freshman year at Towson University, have an overall grade point average of at least 3.00, and no more than one course grade less than a 2.00 may apply for early admission to the Nursing major. Early admission will give them "Guaranteed Admission Status" which will ensure them a place in the program in the semester they are ready to enter. In order to maintain this status, the student must maintain a grade point average of 3.00 and all course grades must be 2.00 or higher. Students who have "Guaranteed Admission Status" and have grades that fall below these criteria may still be accepted into the program, but need to be re-evaluated with the rest of the group applying for that semester. Students interested in pursuing admission under this policy are urged to contact the admissions coordinator at 410-830-4170.

INDIVIDUAL ADMISSION POLICY

Applicants who do not meet the admission criteria may still be considered for admission under the individual admission policy. To be considered, the individual must demonstrate the ability to be successful in a rigorous academic curriculum through recent strong academic performance in relevant course work. Applicants who wish to be considered under this policy must submit, with the standard application, supporting materials making a *specific*,

personalized case of why the applicant deserves acceptance into a *rigorous academic program*. Submitted materials should include a written request for consideration, two letters of recommendation from appropriate sources, such as professors or academic advisers, and a personal statement with supporting materials explaining why the applicant deserves special consideration and why his or her qualifications do not meet stated criteria. Materials submitted should contain *very specific and compelling information* to warrant special consideration.

BASIC PROGRAM

High school students are advised to take the following courses to provide the base necessary to complete the prerequisite courses for the Nursing major: mathematics – three units (two years of algebra and one year of geometry); chemistry – one unit; biology – one unit. Physics, although not required, is recommended.

Eligibility and Screening: Admission to the major is contingent upon the student being screened and admission being offered to the applicant by the department. The screening process takes place during the semester prior to the student's anticipated enrollment in the first nursing course. Students are eligible to apply for admission after they have completed a minimum of 42 undergraduate credits, including at least four laboratory sciences and ENGL 102. Only one grade below a grade equivalent of 2.00 is allowed in prerequisite or General Education courses, and no more than two courses may be repeated. A minimum quality point average of 2.50 on a 4.00 scale is required; however, students must note that achievement at the 2.50 level in itself does not guarantee admission to the program. The higher the applicant's QPA, the greater the possibility of being offered admission.

REGISTERED NURSE COMPLETION PROGRAM

To be eligible for admission, students must have graduated from a state-approved diploma or associate degree nursing program and be licensed as a Registered Nurse in Maryland. Recent graduates may be admitted pending successful completion of the NCLEX-RN. Students applying for admission to the Nursing major must either have been admitted to the university or be currently seeking admission to the university.

Three advanced placement options are available for RNs through a statewide Validation Model. All students are eligible to take advanced placement examinations as one option. Two other options are available depending upon year of graduation and/or location of diploma or associate degree nursing program.

Registered Nurse students are advised to contact the department for advisement prior to completion and submission of the application for admission to the university. At that time, a determination will be made of the validation option that is most appropriate for the individual student.

Eligibility and screening: Admission to the Nursing Program is granted only by the department. Eligibility requirements are dependent upon the option chosen. In addition, RN students are required to have a minimum quality point average (QPA) of 2.50 on a 4.00 scale. Only one grade below a grade equivalent of 2.00 is allowed in the non-nursing courses required for the Nursing Program. Students validating their basic nursing education through the "transition course" option must have completed these courses prior to admission to the Nursing major.

ACADEMIC STANDARDS

In order to remain in and graduate from the Nursing major, students are required to maintain a grade equivalent of 2.00 or higher in both the theory and clinical component in each Nursing course, in addition to maintaining a 2.00 overall cumulative quality point average.

The *Nursing Student Handbook* provides additional information concerning department policies and is distributed upon enrollment in the major.

SPECIAL FINANCIAL OBLIGATIONS

All students in the Nursing major are required to

- carry nursing student liability insurance through the university
- carry hospitalization insurance including accident and/or emergency benefits
- purchase departmental uniforms and supplies (approximately \$700 for basic students and \$200 for RN students)
- have a valid driver's license and access to the independent use of a car in order to provide own travel to and from clinical facilities
- assume financial responsibility for expenses related to the required physical examination and laboratory/screening tests

Information about financial assistance may be obtained from the university's Office of Financial Aid.

Information sessions are offered throughout the year. For additional information, contact the Department of Nursing.



Department of Occupational Therapy

Professors: Charlotte Exner, Regena Stevens-Ratchford

Associate Professors: Karen Eskow, S. Maggie Reitz (*Acting Chair*)

Assistant Professors: Sonia Coleman, Mary Beth Merryman, Marlene Riley, Miriam Struck, Marcie Weinstein, Jenna Yeager

Field Work Administrator: Nancy Blake

Part-time Faculty: Melissa Adlington, Kristin Brockmeyer-Stubbs, Penny Kyler, Lee Melchior, Lynne Murphy, Jean Patz, Jennifer Wingrat

OFFICE

Lida Lee Tall 305, 410-830-2762

PROGRAMS OF THE DEPARTMENT

Occupational therapy is the art and science of directing human participation in selected occupations to restore, reinforce and enhance performance, facilitate learning of skills and functions essential for adaptation and productivity, diminish or correct pathology, and promote and maintain health. Occupational therapists direct the use of self-care, work, homemaking, play and leisure arts activities. They use these activities to assist individuals or groups whose health is threatened or impaired by developmental deficits, aging, poverty or environmental conditions, physical injury or illness, and psychological and social disability.

The Department of Occupational Therapy currently offers a three-year program of study designed to provide a liberal education and develop professional competence. The program of study leads to a baccalaureate degree in Occupational Therapy. The Occupational Therapy Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA) located at 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220. AOTA's phone number is 301-652-2682. Graduates of the program will be able to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT certification examination. (Persons convicted of felonies may be unable to sit for the certification examination and should inquire in advance of program entry regarding eligibility.)

Occupational therapy is a profession that demands its practitioners have clinical competencies as well as academic knowledge. In addition to satisfactory completion of course work, students must demonstrate appropriate clinical behaviors and skills prior to beginning clinical/internship experiences. Students who have less than a 2.50 QPA will not be permitted to enroll in OCTH 435/436. In the event that students lack appropriate clinical behaviors and/or skills and/or do not have satisfactory academic performance in one or more required courses, they will be provided with counseling by the occupational therapy faculty, and recommendations for remedial courses of action will be made.

Students are expected to be aware of and adhere to the Code of Ethics established by the department. Violation of the standards set forth in this document is cause for disciplinary action which may include dismissal from the Occupational Therapy Program.

The department also offers a Master of Science degree in Occupational Therapy. For further information, consult the *Graduate Catalog*.

Permit Cards

Special permit cards are required for admission to all Occupational Therapy major courses.

Health and Insurance Requirements

Contracts with clinical facilities require that students in clinical placements show proof of current health insurance and documentation of current health status. The findings of the health examination will not necessarily exclude students from clinical placement. Students must present evidence of current health insurance, a recent health examination, and results of a P.P.D. test prior to enrollment in the first clinical experience. Annual updates are required. Students must also complete the Hepatitis B vaccine series or sign a declination form for the vaccine.

First Aid and CPR Courses

It is highly recommended that students complete a standard course in first aid. Cardiopulmonary resuscitation (CPR) certification is required prior to beginning the program. Yearly updates for CPR certification are also required during enrollment in the major.

PRE-ADMISSION REQUIREMENTS FOR ALL CANDIDATES

Admission to the university does *not* guarantee admission to the Occupational Therapy major. At students' request, occupational therapy faculty and administrative staff will advise candidates about the nature of the profession, the national certification examination, and the occupational therapy curriculum prior to admission.

APPLICATION CRITERIA

Applicants are encouraged to attend a program information session in the department prior to applying to the program. Application materials for the Occupational Therapy Program must be submitted to the College of Health Professions (CHP) admissions coordinator with a postmark no later than March 1. All students applying for admission to the undergraduate Occupational Therapy Program at Towson University must meet the following criteria:

1. Applicants must have applied to Towson University for fall admission by February 1.
2. Applicants must have completed a minimum of 14 credits in college courses, excluding developmental courses, by the end of the fall semester preceding screening.
3. Applicants must have a grade equivalent of 2.67 or higher in the following courses or their equivalents completed by December 31:
 - a. BIOL 110, Contemporary General Biology (must be completed by end of fall semester preceding screening). BIOL 213, Anatomy and Physiology I, may be substituted for BIOL 110 for screening purposes.
 - b. Two of the following three courses:
PSYC 101 Introduction to Psychology
SOCI 101 Introduction to Sociology
ENGL 102 Writing for a Liberal Education

All of these courses must be completed by the end of the semester in which screening takes place with a grade equivalent of 2.67 or higher. CLEP tests and AP exam scores may be used in lieu of course grades. However, scores must be equivalent to the grade requirement of a 2.67 or higher, and the courses must be posted on the TU transcript. Applicants with lower test scores must take the course and achieve a grade equivalent of 2.67 or higher to be considered for screening. Applicants with such test scores must contact the CHP admissions coordinator for specific information.

4. Applicants must have completed PHYS 202, General Physics B, or PHYS 211, General Physics I or the

- equivalent with a grade equivalent of 2.00 or higher by the end of the spring semester in which screening takes place.
5. Applicants must have a minimum overall quality point average of 2.70 by the end of the fall semester preceding screening.
 6. Applicants must submit the following documents in *one* packet postmarked by March 1:
 - a. Official transcripts that include course work taken through the fall semester preceding application to the program.
 - b. Evidence of spring semester enrollment in PHYS 202, General Physics B, or PHYS 211, General Physics I, and the other prerequisite course, if not previously completed.
 - c. A completed Human Service Activity Verification Form, which provides evidence of completion of at least 30 hours of work and/or volunteer experience in a human service activity. This work or volunteer experience must have involved direct contact with people with disabilities, illness or other disadvantages. Examples include work/volunteer experience with clients in hospitals, nursing homes, rehabilitation facilities, senior centers, drug rehabilitation programs, programs for the homeless, camps, etc.
 - d. A typewritten application essay following the guidelines provided by the department.
 - e. Three reference forms completed by appropriate individuals and submitted in accordance with application requirements.
 7. Applicants must have a completed Prerequisite Course Form on file by March 1. In addition, applicants who wish to have courses not listed on this form approved as equivalent to major courses in this program of study must submit a written request for approval of these courses.
 8. A minimum of 23 credits meeting General Education (GenEd) requirements must have been completed prior to beginning the first semester of the Occupational Therapy Program.

Applicants with credits over 10 years old may petition (in writing by March 1) to have these credits excluded from calculation of the QPA if they have successfully completed 14 or more credits within the past two years. These 14 credits must include either BIOL 110, Contemporary General Biology, or BIOL 213, Anatomy and Physiology I (or their equivalent). When this option is approved, *all* credits over 10 years old are excluded from QPA computation, with the exception of grades for PSYC 101, SOCI 101, ENGL 102, and PHYS 202 or PHYS 211. If applicants wish old screening course grade(s) to be omitted, they must have retaken the screening course(s) within the past 10 years. If a petition regarding omission of these grades is not received by the application deadline, all courses over 10 years old will be used in computation of the QPA.

APPLICATION PROCESS

Faculty and clinical resources make it necessary to limit the number of students accepted.

First Level of Screening

Initial screening, which is based on QPA, will occur immediately after March 1 for applicants who have complete files. Overall QPAs will be computed, and the top 60 applicants will be identified.

Second Level of Screening

The department's Undergraduate Committee will review documents of the top 60 applicants and evaluate these applicants

based upon their QPAs, essays and references. The top candidates from this pool of applicants will be selected for admission.

A maximum of 25 percent of the group of applicants selected will be out-of-state students, unless qualified in-state students are unavailable.

Selection of the top candidates will be completed by April 15. After May 15 a waiting list will be developed consisting of other applicants from the original pool of 60 who were not accepted but wish to remain on the waiting list for classes beginning that fall semester. The top candidate on that list is notified if a place becomes available in the class. If that candidate cannot accept the place, the next candidate is notified. The waiting list is maintained until the end of the drop-add period in the fall and does not carry over into the next year.

MAJOR IN OCCUPATIONAL THERAPY

In addition to the General Education requirements, Occupational Therapy majors must complete 45 credits in occupational therapy courses, 13 credits in other required courses, and 20 credits in clinicals and internships. Additional elective credits may be required to earn the total of 120 credits necessary for graduation. Courses applicable toward the major may not be taken under the Pass grading option.

Students must maintain a cumulative quality point average of at least 2.50 following admission into the Occupational Therapy major. Students who have less than a 2.50 QPA and/or who do not demonstrate appropriate professional behaviors and necessary clinical skills will not be permitted to enroll in OOTH 435/436. A grade equivalent of 1.67 or lower in a required course will not count toward major credit. Students receiving a grade equivalent of 1.67 or lower in a major course or a U in OOTH 435/436 may retake the course once to improve their standing.

REQUIRED COURSE SEQUENCE FOR OCCUPATIONAL THERAPY MAJORS

Sophomore Year

First Semester

OOTH 213	Small Group Dynamics (3)
OOTH 216	Life Span Adaptation and Occupations (4)
OOTH 217	Analysis of Occupational Performance I (4)
BIOL 213	Anatomy and Physiology I (4)

Second Semester

OOTH 211	Philosophy of OT (3)
OOTH 218	Analysis of Occupational Performance II (3)
BIOL 214	Anatomy and Physiology II (4)
BIOL 427	Neuromuscular Mechanisms of the Upper Body (2)
PSYC 361	Abnormal Psychology (3)

Junior Year

First Semester

OOTH 221	Clinical Kinesiology (3)
OOTH 314	Psychosocial Dysfunction (4)
OOTH 315	Pathological Conditions (3)
OOTH 320	Psychosocial Dysfunction Clinical (2)
HLTH 207	Health Care in the U.S. (3)

Second Semester

OOTH 313	Physical Dysfunction: Neurological Conditions (3)
OOTH 317	Physical Dysfunction: Musculoskeletal Conditions (2)
OOTH 319	Physical Dysfunction Clinical (2)
OOTH 323	Gerontological Occupational Therapy (2)
MATH 237	Biostatistics (4)
	or
MATH 231	Basic Statistics (3)
GenEd Course	

Summer

OOTH 435	Internship I (optional*) (6)
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Senior Year**First Semester**

OCTH 325	Pediatric Occupational Therapy (4)
OCTH 326	Pediatric Clinical (2)
OCTH 412	OT Health Promotion Initiatives in the Community (2)
OCTH 428	OT Organizations in Modern Society (3)
OCTH 430	Research Methods in OT (3)

*Internship I (OCTH 435) may be taken between the fourth and fifth semesters of the program only if the student is taking Specialty Internship (OCTH 437), if internship sites are available, and if faculty approval is received.

Second Semester

OCTH 435	Internship I (6)
	or
OCTH 436	Internship II (6)
	or
OCTH 437	Specialty Internship (4-6)

All OT students must complete Level II Fieldwork within 24 months following completion of academic preparation.

In addition to the above courses, students are required to complete all GenEd requirements during regular semesters or summer sessions. Students must complete all GenEds by the end of the fifth semester of the program.

Students in this program may not take occupational therapy courses prior to the semesters in which they are scheduled on this plan.

CERTIFIED OCCUPATIONAL THERAPY ASSISTANTS

Certified occupational therapy assistants may ask to have courses taken in fulfillment of their degree reviewed to determine if any of these courses may substitute for required 200-level courses in the Occupational Therapy Program of study at Towson University. Depending upon type and number of courses accepted as equivalent to TU courses, permission to complete the academic program in four semesters of academic course work and six months of fieldwork may be granted. Students who wish to be considered for this option must notify the department in writing of their request and must provide course descriptions.

B.S. AND M.S. DEGREE OPTION

Students who are screened and enter the Bachelor of Science program in fall 2000 may elect to continue their studies in occupational therapy and receive a Master of Science degree in Occupational Therapy in addition to their B.S. degree. Those who decide to pursue an M.S. degree will select one of the following full-time courses of study.

ACCELERATED OPTION

(summers and Minimester included)

Summer

Elective (3)
Elective (3)

Fall

OCTH 611	Advanced OT Theory and Philosophy (3)
OCTH 613	Advanced Research Methods in OT (3)
OCTH 623	Assessment in Pediatric OT (3)
PSYC 687	Advanced Experimental Design I (3)
	or
OCTH 621	Geriatric Rehabilitation (3)

Minimester

Elective (3)

Spring

OCTH 603	Issues in OT (3)
OCTH 633	OT Treatment in Pediatrics (3)
	or
OCTH 631	Community Gerontology (3)
OCTH 781	Graduate Seminar (3)

Summer

OCTH 604	Academic and Clinical Education (3)
OCTH 897	Graduate Project (3)

ALTERNATIVE OPTION**Fall**

OCTH 611	Advanced OT Theory and Philosophy (3)
OCTH 613	Advanced Research Methods in OT (3)
OCTH 623	Assessment in Pediatric OT (3)
PSYC 687	Advanced Experimental Design I (3)
	or
OCTH 621	Geriatric Rehabilitation (3)

Spring

OCTH 603	Issues in OT (3)
OCTH 633	OT Treatment in Pediatrics (3)
	or
OCTH 631	Community Programming (3)
OCTH 781	Graduate Seminar (3)

Summer

OCTH 604	Academic and Clinical Education (3)
Elective (3)	

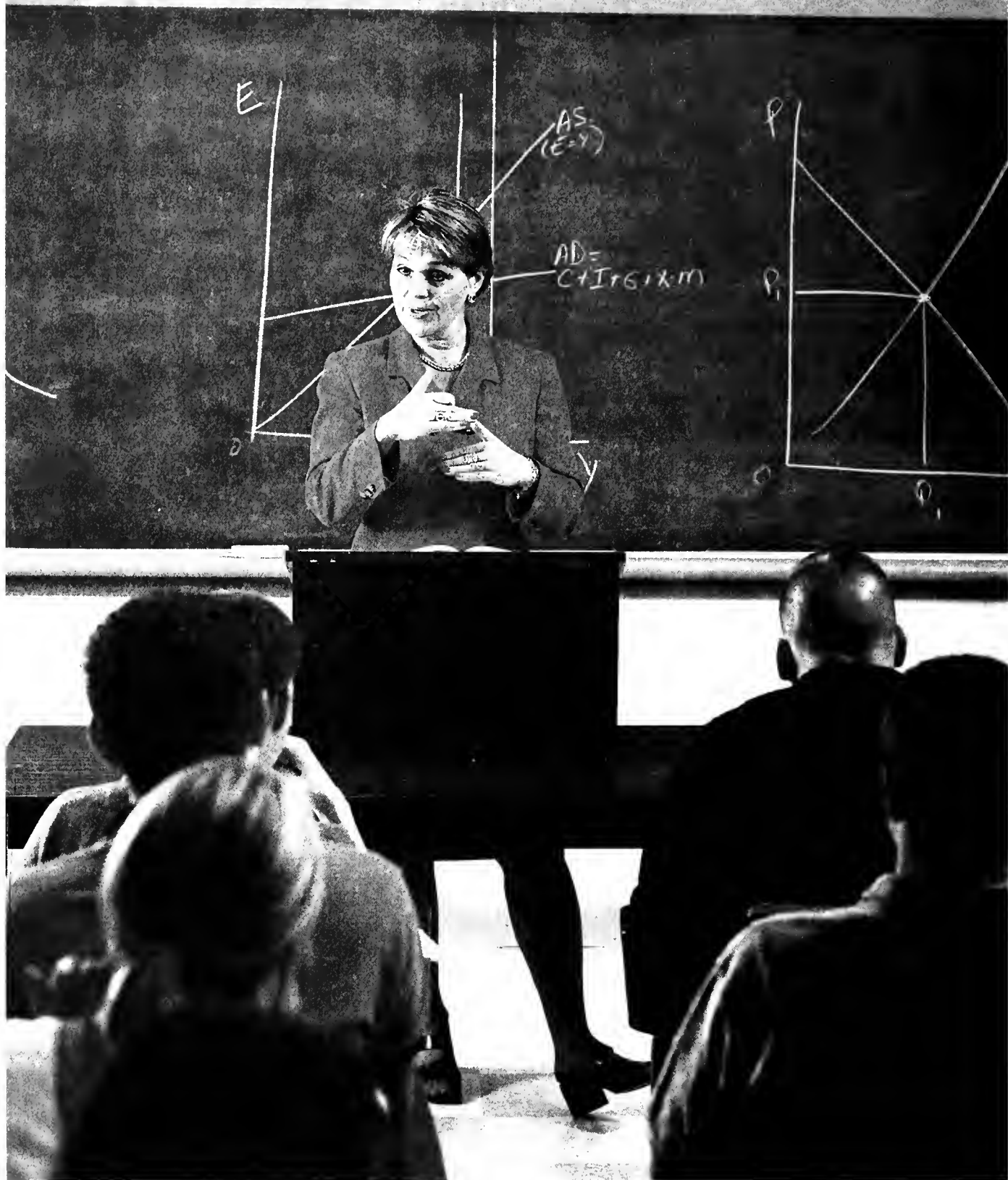
Fall

OCTH 897	Graduate Project (3)
Elective (3)	
Elective (3)	

This sequence may change without prior notice.

MASTER OF SCIENCE IN OCCUPATIONAL THERAPY

The Master of Science in Occupational Therapy is designed for individuals with bachelor's degrees who are interested in assuming leadership roles in the profession and obtaining advanced education in pediatrics or gerontology with emphasis on teaching, research or clinical practice. A specialization in Occupational Therapy Organization/Administration is also offered. Those individuals who are not occupational therapists must be screened for admission to the pre-occupational therapy component of the program and must successfully complete prerequisite courses prior to enrolling in graduate degree program occupational therapy courses. For further information, consult the *Graduate Catalog*.





The College of Liberal Arts

The liberal arts are the core disciplines of the university, those disciplines through which students explore and interpret what it means to be human, both as individuals and as members of groups. Study of the liberal arts frees us to think more clearly, to analyze and interpret information, to weigh points of view, to arrive at informed judgments about complex issues, and to appreciate the rich diversity of human culture.

The College of Liberal Arts is committed to providing comprehensive opportunity for undergraduate and graduate instruction. The liberal arts curriculum helps students develop the ability to analyze and interpret information and opinions objectively, form and express conclusions creatively, express themselves clearly, appreciate the wide diversity of human culture, and move comfortably in the world of ideas and values. Degree programs in the College of Liberal Arts emphasize professional career opportunities and interdisciplinary study, as well as more traditional theoretical aspects of the disciplines.

Teaching

While using effective traditional teaching methods, Towson has also been in the forefront of innovation in instruction. The college supports small classes, an emphasis on writing and personal attention to students. College of Liberal Arts faculty are in the forefront of curriculum innovation in writing instruction, infusion of material on cultural diversity, and in the use of technology to meaningfully expand and enrich learning.

Scholarship

Commitment to undergraduate education is reflected not only in teaching excellence, but also in the faculty's active involvement in scholarly activity and professional growth, including publications, presentations at professional meetings, and participation in regional, national, and international conferences and workshops. Opportunities also exist for students to become involved in collaborative research with faculty, further developing students' academic and personal growth while providing new avenues for the College of Liberal Arts to meet the challenge of continued excellence in education.

Service

The College of Liberal Arts serves the metropolitan community in many ways, contributing to its cultural life and social progress. The departments, centers and institutes of the college develop creative partnerships with public and private enterprises that ensure the intellectual resources of the institution are fully engaged in ways that are mutually beneficial and serve the people of the Baltimore metropolitan area. Within the university, faculty of the college serve on the essential committees, governing bodies, and task forces which promote the educational missions of the university.

Cultural Studies
 English
 Environmental Science and Studies
 Family Studies
 Geography and Environmental Planning
 Gerontology
 History
 Interdisciplinary Studies
 African-American Studies
 American Studies
 Animal Behavior
 Asian Studies
 Business, Communication and the
 Liberal Arts Minor
 Classical Studies Minor
 Comparative Ethnic Studies
 Irish Studies Minor
 Jewish Studies Minor
 Latin American Studies
 Lesbian and Gay Studies Minor
 Medieval and Renaissance Studies
 Prelaw
 Religious Studies
 International Studies
 Law and American Civilization
 Metropolitan Studies
 Modern Languages
 French
 German
 Spanish
 Philosophy
 Political Science
 Psychology
 Social Sciences
 Sociology/Anthropology/Criminal Justice
 Sociology
 Anthropology
 Criminal Justice
 Women's Studies

Beverly C. Leetch, Interim Dean
 Carl Behm, Acting Associate Dean

COLLEGE OFFICE
 Linthicum Hall 102A, 410-830-2128
 Fax: 410-830-6392
www.towson.edu/cla/

Cultural Studies Program

Director: David Bergman

Affiliated Faculty: Scott Allen (*English*), Peter Baker (*English*), David Bergman (*English*), Sam Collins (*Sociology, Anthropology and Criminal Justice*), K Edgington (*English*), Margaret Faulkner (*Kinesiology, Psychology*), Jack Fruchtman (*Political Science*), Wolfgang Fuchs (*Philosophy and Religious Studies*), Cindy Gissendanner (*History*), Carolyn Hill (*English*), Susan Isaacs (*Art*), Peter Lev (*Electronic Film and Media*), John Murungi (*Philosophy and Religious Studies*), Gerald Phillips (*Music*), Juanita Rockwell (*Theatre Arts*), Katia Sainson (*Modern Languages*), Deborah Shaller (*Writing Lab*), Dave Zang (*Kinesiology*)

OFFICE

Linthicum Hall 301F, 410-830-2657

THE PROGRAM

Cultural Studies examines cultural expressions: kinship patterns, religion, folk, popular, middle-brow and avant-garde arts; politics; entertainment, medical procedures, technologies and the economy. It focuses on these as interconnected, interactive and as forming a system of meaning. To understand any one cultural manifestation involves seeing it in relation to others. How one draws connections, where one draws connections and why one draws connections between various manifestations of culture are issues of debate among its students. A cultural studies program is not meant to take any side in this debate. Rather, it provides students with a variety of tools to examine the connections between disciplines and cultural expressions and a range of materials to examine. It seeks to familiarize students both with a number of disciplines and ways to break down the barriers between them. Finally, it will help students find ways of expressing the connections they have made.

MAJOR IN CULTURAL STUDIES

Majors in Cultural Studies must complete 42-45 credits of course work drawn from throughout the curriculum of the university, including an introductory course (3 credits) and core requirements (18 credits), 18 credits of elective courses distributed among four of the six focus areas for cultural study (Visual Culture, Performance Culture, Identity and Culture, Textuality and Culture, Science, Technology and Culture, and Perspectives in Cultural Studies) and a seminar and/or capstone experience.

I. Introductory Course (3 credits)

CLST 201 Introduction to Cultural Studies (3)

II. Core Courses (18 credits)

CLST 301 Perspectives in Cultural Studies (3)
CLST 303 Identity and Culture (3)
CLST 305 Textuality and Culture (3)
CLST 307 Visual Culture (3)
CLST 309 Performance Culture (3)
CLST 311 Science, Technology and Culture (3)

III. Electives (18 credits)

CLST 370-75 Topics in Cultural Studies (3)

At least four courses from the following groups:

A. Perspectives in Cultural Studies

ANTH 346 Wealth, Power and Politics (3)
ANTH 361 Controversies in Anthropology (3)
ECON 321 History of Economic Thought (3)
ENGL 270 The American Dream (3)

B. Identity and Culture

ANTH 321 Gender in Cross-Cultural Perspective (3)
ANTH 366 Indians of South America (3)
ANTH 388 Peasant Cultures (3)
ENGL 236 Survey of American Indian Literature 1772-Present (3)
IDIS 101 Introduction to Lesbian and Gay Studies (3)
PSYC 447 Sex Differences: Psychological Perspectives (3)
SOCI 343 Minority Groups (3)
SPAN 312 Spanish Culture and Civilization II (3)
WMST 332 Women's Culture and Creativity (3)

C. Textuality and Culture

ENGL 462 Modern Literary Theory (3)
MOLA xxx up to 6 credits of a modern language

D. Visual Culture

ARTH 207 Honors Seminar in Western Art (3)
ARTH 208 Honors Seminar in Non-Western Art (3)
ARTH 311 Northern Renaissance Art (3)
ARTH 331 The Art of China (3)
ARTH 333 The Art of Japan (3)
ARTH 335 African American Art (3)
ARTH 337 American Art (3)
ARTH 341 Women in Art (3)
ARTH 351 History of Photography (3)
ARTH 485 Seminar (Art and Theory Post-1945 and 20th Century Craft) (3)

E. Performance Culture

KNES 353 Sport and Society (3)
KNES 357 Sport in Film (3)
KNES 349 The Modern Olympic Games (3)
PSYC 209 Consumer Behavior (3)
SOCI 210 Sociology of Sport (3)
THEA 303 Cultural Diversity in Contemporary Theatre (3)
THEA 307 Theories of Theatre (3)
WMST 338 Women and Sexuality (3)

F. Science, Technology and Culture

NURS 406 Multicultural Health Care (3)
WMST 336 Women and Medicine (3)
WRIT 335 Ethics in the Physical Sciences (3)

IV. Seminar and/or Capstone Experience (3-6 credits)

Students have three options to choose from to fulfill this stage of the Cultural Studies Program. In all options, the student will research and write a major essay or report and exhibit an integrated knowledge of cultural studies. First, students may participate in an internship in the workplace approved and supervised by the director of the Cultural Studies Program. Second, the student may enroll in a senior seminar which will focus on an aspect of cultural studies. Third, the student may engage in independent study approved by the Cultural Studies director.

MINOR IN CULTURAL STUDIES

The minor in Cultural Studies is designed to enhance and supplement students' studies in a number of other areas, including Anthropology, Education, English, and Mass Communication. In these areas of study, the fundamental questions posed by Cultural Studies give students a broader, more critical look at the interactions between their fields of study and society as a whole. It may also provide a useful complement to any undergraduate program of study.

The Program

Students minor in Cultural Studies must complete 18 credits, including the introductory course (3 credits) and three of the Electives — Group I (9 credits), and two Electives — Group II, one of which must be upper-level. Students must earn a grade equivalent of 2.00 or higher in all courses in the minor.

Introductory Course (3 credits)

CLST 101 Introduction to Cultural Studies (3)

Electives — Group I (9 credits)*Three courses from the following:*

- CLST 301 Perspectives in Cultural Studies (3)
- CLST 303 Identity and Culture (3)
- CLST 305 Textuality and Culture (3)
- CLST 307 Visual Culture (3)
- CLST 309 Performance Culture (3)
- CLST 311 Science, Technology and Culture (3)

Electives — Group II (6 credits)*Two courses from the following, one of which must be upper-level:*

- ANTH 321 Gender in Cross-Cultural America (3)
- ANTH 346 Wealth, Power and Politics (3)
- ANTH 361 Controversies in Anthropology (3)
- ANTH 366 Indians of South America (3)
- ANTH 388 Peasant Cultures (3)
- ARTH 207 Honors Seminar in Western Art (3)
- ARTH 208 Honors Seminar in Non-Western Art (3)
- ARTH 311 Northern Renaissance Art (3)
- ARTH 331 The Art of China (3)
- ARTH 333 The Art of Japan (3)
- ARTH 335 African-American Art (3)
- ARTH 337 American Art (3)
- ARTH 341 Women in Art (3)
- ARTH 351 History of Photography (3)
- CLST 370-75 Topics in Cultural Studies (3)
- ECON 321 History of Economic Thought (3)
- ENGL 236 Survey of American Indian Literature, 1772-Present (3)
- ENGL 270 The American Dream (3)
- ENGL 462 Modern Literary Theory (3)
- IDIS 101 Introduction to Lesbian and Gay Studies (3)
- KNES 353 Sport and Society (3)
- KNES 357 Sport in Film (3)
- KNES 349 The Modern Olympic Games (3)
- NURS 406 Multicultural Health Care (3)
- PSYC 209 Consumer Behavior (3)
- PSYC 447 Sex Differences: Psychological Perspectives (3)
- SOCI 210 Sociology of Sport (3)
- SOCI 343 Minority Groups (3)
- SPAN 312 Spanish Culture and Civilization I (3)
- THEA 303 Cultural Diversity in Contemporary Theatre (3)
- THEA 307 Theories of Theatre (3)
- WMST 332 Women's Culture and Creativity (3)
- WMST 336 Women and Medicine (3)
- WMST 338 Women and Sexuality (3)
- WRIT 335 Ethics in the Physical Sciences (3)

Department of English

Professors: Evelyn Avery, Peter Baker, Carl Behm, David Bergman, Paul Douglas, George Friedman, John Gissendanner, George Hahn, Clarinda Harriss (*Chair*), Dan Jones, Jacqueline Wilkottz

Associate Professors: G. Scott Allen, John Connolly, James Cook, Edwin Duncan, Sharon Gibson-Groshon, Carolyn Hill, Suzanne Legault, Harvey Lillywhite, Linda Mahin, Paul Miers, Florence Newman, Cynthia Sulfridge, Gary Wood

Assistant Professors: Barbara Bass, Cheryl Brown, Don-John Dugas, K Edgington, John Tinkler

Instructors: Lena Ampadu, Margaret Benner, John Flynn, Carol Pippen, Deborah Shaller

Part-time Faculty: Joan Allen, Lynda Anozie, Sunday Anozie, Margaret Benner, Sue Bergamy-Willinger, Ellen Blumner, Linda Brody, Evan Balkan, Catherine Bull, Vivia Chang, James Curran, Judith DeCraene, Joan Donner, Kirk Drury, Kevin Dungey, Lynne Dowell, Georgia Economou, Charles Ewers, John Flynn, Deidre Graydon, Cynthia Gruhn, Kerri Harrison, Theodore Hendricks, Sarah James, Arthur Johnston, Elizabeth Kaufman, Janet Kearney, Michael Keating, Anthony Mafale, Margaret Meachum, Tracy Miller, Tonia Minor, Lawrence Nichols, Bonnie Papastamou, Bradley Paul, Carol Pippen, Joanne Riley, Robert Sammarco, Susanna Sayre, Diane Scharper, Gregory Seagle, Donna Seibly, Amelia Shackman, Frank Shivers, Graham Smith, Edward Sparrow, Mollie Sprinkle, Aaron Toscano, Mika Troutman, Andrew Vervan, Leela Walter, Kim Weidman, Deirdre Woodward

OFFICE

Linthicum Hall 218K, 410-830-2871

Fax: 410-830-3999

www.towson.edu/english

PROGRAMS OF THE DEPARTMENT

English offers students pleasure and profit, wit and wisdom, a sense of history and a vision of the future. English students know the delight of reading the best of British and American literature — authors as diverse as Shakespeare and Emily Dickinson, Edgar Allan Poe and Virginia Woolf, James Baldwin and John Donne. The Department of English provides several programs tailored to diverse needs. Students majoring in English can concentrate in Writing, Literature or Secondary Education. Students pursuing other majors can minor in English, Creative Writing or World Literature.

Each English major or minor chooses or is assigned a faculty adviser, who assists the student in tailoring an individual program of study best suited to the student's interest and abilities. The flexibility of all programs, including majors and minors, allows the student a wide choice of courses within the department and possibilities for coordinating a program with another academic department.

The Department of English oversees the Master in Professional Writing program, offering unique post-baccalaureate opportunities for English majors and minors interested in pursuing careers in creative writing, technical writing, editing, public relations and teaching writing at the community college level. Harvey Lillywhite, 410-830-2942, coordinates the program.

MAJOR IN ENGLISH

English majors must complete 42 credits and each course must be completed with a grade equivalent of 2.00 or higher. No more than 15 credits earned at the lower level may be counted toward the major.

Core Requirements

English majors who choose the Secondary Education Concentration or the Literature Concentration must complete 24 credits in core requirements. Those who choose the Writing Concentration must complete 21 credits in core requirements.

Note: In fulfilling the requirements below, students must select at least one course in American literature and one in literature written prior to 1798; courses that fulfill the latter requirement are designated by an asterisk. In addition, the department strongly recommends that students who plan to major in English complete ENGL 102, Writing for a Liberal Education, or ENGL 190, Honors Writing Seminar, *during their first year*.

I. Historical Development (15 credits)**A. Both of the following:**

- ENGL 221 British Literature to 1798 (3)
ENGL 222 British Literature since 1798 (3)

B. Two of the following literary periods:

- ENGL 321 Medieval British Literature* (3)
ENGL 323 British Renaissance Literature* (3)
ENGL 324 British Literature of the Later Renaissance* (3)
ENGL 325 18th Century British Literature* (3)
ENGL 326 British Romantic Period (3)
ENGL 327 Victorian Age (3)
ENGL 431 American Romantic Period (3)
ENGL 432 American Realistic Period (3)

Note: In consultation with their major advisers and with the prior approval of the department chairperson, students may substitute selected genre or topics courses for one of the two literary periods required in GenEd I.B.

C. One of the following courses in the development of a literary genre:

- ENGL 322 British Medieval and Renaissance Drama* (3)
ENGL 331 American Drama (3)
ENGL 344 The Continental Novel (3)
ENGL 345 Perspectives in World Drama (3)
ENGL 346 Modern Drama (3)
ENGL 420 Development of the British Novel: 18th Century* (3)
ENGL 421 Development of the British Novel: 19th Century (3)
ENGL 422 Development of the British Novel: 20th Century (3)
ENGL 423 Modern British Poetry (3)
ENGL 433 American Short Story (3)
ENGL 435 Development of the American Novel: 19th Century (3)
ENGL 436 Development of the American Novel: 20th Century (3)
ENGL 437 American Poetry through Frost (3)
ENGL 438 Modern American Poetry (3)
ENGL 439 Modern World Poetry (3)
ENGL 441 Modern Fiction to World War II (3)
ENGL 442 Modern Fiction since World War II (3)

II. Analysis and Methodology (6 credits, Secondary Education Concentration, Literature Concentration; 3 credits, Writing Concentration)**A. Formal Study of Genre (3 credits)****One of the following:**

- ENGL 261 Tradition and Form in Western Poetry (3)
ENGL 263 Tradition and Form in Western Fiction (3)
ENGL 265 Tradition and Form in Western Drama (3)

Note: Secondary Education Concentration requires ENGL 261.

B. Research Methods and Approaches to Literary Analysis (3 credits, Secondary Education and Literature concentrations)

- ENGL 361 Literary Research and Applied Criticism (3)

Note: Recommended but not required for the Writing Concentration. May be used to fulfill categories IV or V in the Writing Concentration.

III. Expository Writing (3 credits)**One of the following:**

- ENGL 310 Writing Argument (3)
ENGL 313 Academic Essay (3)
ENGL 315 Literary Essay (3)
ENGL 316 Writing about Literature (3)
WMST 333 Women's Words, Women's Lives (3)

LITERATURE CONCENTRATION

Eighteen credits are required from the following, in addition to the core requirements.

I. Thematic Approaches, Diversity, Western Heritage, Global Perspectives (3 credits)**One of the following:**

- ENGL 230 Main Currents in American Literature (3)
ENGL 233 African-American Literature (3)
ENGL 234 Major Writers in African-American Literature (3)
ENGL 235 Ethnic-American Literature (3)
ENGL 236 American Indian Literature (3)
ENGL 239 Jewish Literature of the 19th and 20th Centuries (3)
ENGL 240 Classics of the Western Heritage (3)
ENGL 243 Classical Mythology (3)
ENGL 244 World Folklore (3)
ENGL 248 Literature of the Global Experience (3)
ENGL 270 Ideas in Literature (3)
ENGL 290 Honors Seminar in Literature (3)
ENGL 341 History and Literature of the Old Testament (3)
ENGL 342 Folklore and Literature (3)
ENGL 343 Myth and Literature (3)
ENGL 347 World Literature Written in English (3)
ENGL 363 Film and Literature (3)
ENGL 370 Special Topics: Literature of Women (3)
ENGL 371 Women Poets: Themes and Images (3)
ENGL 372 Women Writers (3)
ENGL 373-379 Themes in Literature (3)
ENGL 471-477 Topics in World, British, American, Multiethnic and Black-American Literature (3)
ENGL 485-486 Seminar in Literature Studies (3)

II. Major Figures (6 credits)**A. One of the following:**

- ENGL 427 Shakespearean Comedy (3)
ENGL 428 Shakespearean Tragedy (3)

B. One of the following:

- ENGL 425 Chaucer (3)
ENGL 429 Milton and the Humanist Tradition (3)
ENGL 469 Special Studies in One or Two Authors (3)
ENGL 471-477 Topics Courses (when the subject is appropriate) (3)
ENGL 485-486 Seminar in Literary Studies (when the subject is appropriate) (3)

III. Literary Criticism (3 credits)**One of the following:**

- ENGL 461 History of Literary Criticism (3)
ENGL 462 Modern Literary Theory (3)

IV. Linguistics (3 credits)**One of the following:**

- ENGL 350 Comparative Grammar (3)
ENGL 351 Historical Linguistics (3)
ENGL 352 Structural Linguistics (3)
ENGL 353 History of American English (3)
ENGL 451 History of the English Language (3)
ENGL 452 Structure of the English Language (3)
ENGL 475 Topics in Linguistics (3)

V. Elective (3 credits)

Any course in literature, writing, honors or practical experience (may include ENGL 490, 497, 498 or 499).

SECONDARY EDUCATION PROGRAM

Eighteen credits are required from the following, in addition to the core requirements.

I. Diversity in American Literature (3 credits)

One of the following:

- ENGL 233 African-American Literature (3)
- ENGL 234 Major Writers in African-American Literature (3)
- ENGL 235 Ethnic-American Literature (3)
- ENGL 236 American Indian Literature (3)
- ENGL 239 Jewish Literature of the 19th and 20th Centuries (3)
- ENGL 373-379 Themes in Literature (when appropriate) (3)
- ENGL 475 Topics in Multiethnic American Literature (3)
- ENGL 477 Topics in Black-American Literature (3)
- ENGL 485-486 Seminar in Literary Studies (when appropriate) (3)

II. Thematic Approaches, Western Heritage, Global Perspectives, Literary Criticism (3)

One of the following:

- ENGL 230 Main Currents in American Literature (3)
- ENGL 240 Classics of the Western Heritage (3)
- ENGL 243 Classical Mythology (3)
- ENGL 244 World Folklore (3)
- ENGL 248 Literature of the Global Experience (3)
- ENGL 270 Ideas in Literature (3)
- ENGL 290 Honors Seminar in Literature (3)
- ENGL 341 History and Literature of the Old Testament (3)
- ENGL 342 Folklore and Literature (3)
- ENGL 343 Myth and Literature (3)
- ENGL 347 World Literature Written in English (3)
- ENGL 363 Film and Literature (3)
- ENGL 370 Special Topics: Literature of Women (3)
- ENGL 371 Women Poets: Themes and Images (3)
- ENGL 372 Women Writers (3)
- ENGL 373-379 Themes in Literature (3)
- ENGL 425 Chaucer (3)
- ENGL 429 Milton and the Humanist Tradition (3)
- ENGL 469 Special Studies in One or Two Authors (3)
- ENGL 461 History of Literary Criticism (3)
- ENGL 462 Modern Literary Theory (3)
- ENGL 471-473 Topics in World, British and American Literature (3)
- ENGL 485-486 Seminar in Literary Studies (3)

III. Shakespeare (3 credits)

One of the following:

- ENGL 427 Shakespearean Comedy (3)
- ENGL 428 Shakespearean Tragedy (3)

IV. Applied Grammar and Linguistics (6 credits)

A. Grammar (Students may place out through departmental examination)

- ENGL 251 Applied Grammar (3)

B. *One of the following courses in grammar and linguistics:*

- ENGL 350 Comparative Grammar (3)
- ENGL 351 Historical Linguistics (3)
- ENGL 353 History of American English (3)
- ENGL 451 History of the English Language (3)
- ENGL 452 Structure of the English Language (3)
- ENGL 475 Topics in Linguistics (3)

V. Literature for Secondary Education (3 credits)

- SCED 418 Young Adult Literature (3)

WRITING CONCENTRATION

Twenty-one credits are required from the following, in addition to the core requirements.

I. Thematic Approaches, Diversity, Western Heritage, Global Perspectives (3 credits)

One of the following:

- ENGL 230 Main Currents in American Literature (3)
- ENGL 233 African-American Literature (3)
- ENGL 234 Major Writers in African-American Literature (3)
- ENGL 235 Ethnic American Literature (3)
- ENGL 236 American Indian Literature (3)
- ENGL 239 Jewish Literature of the 19th and 20th Centuries (3)
- ENGL 240 Classics of the Western Heritage (3)
- ENGL 243 Classical Mythology (3)
- ENGL 244 Folklore (3)
- ENGL 248 Literature of the Global Experience (3)
- ENGL 270 Ideas in Literature (3)
- ENGL 290 Honors Seminar in Literature (3)
- ENGL 342 Folklore and Literature (3)
- ENGL 343 Myth and Literature (3)
- ENGL 347 World Literature Written in English (3)
- ENGL 363 Film and Literature (3)
- ENGL 370 Special Topics: Literature of Women (3)
- ENGL 371 Women Poets: Themes and Images (3)
- ENGL 372 Women Writers (3)
- ENGL 373-379 Themes in Literature (3)
- ENGL 471-477 Topics in World, British, American, Multiethnic, and Black-American Literature (3)
- ENGL 485-486 Seminar in Literary Studies (3)

II. Major Figure (3 credits)

One of the following:

- ENGL 425 Chaucer (3)
- ENGL 427 Shakespearean Comedy (3)
- ENGL 428 Shakespearean Tragedy (3)
- ENGL 429 Milton and the Humanist Tradition (3)
- ENGL 469 Special Studies in One or Two Authors (3)
- ENGL 471-477 Topics (when appropriate) (3)
- ENGL 485-486 Seminar in Literary Studies (when appropriate) (3)

III. Linguistics and Literary Criticism (3 credits)

One of the following:

- ENGL 350 Comparative Grammar (3)
- ENGL 351 Historical Linguistics (3)
- ENGL 352 Structural Linguistics (3)
- ENGL 353 History of American English (3)
- ENGL 451 History of the English Language (3)
- ENGL 452 Structure of the English Language (3)
- ENGL 461 History of Literary Criticism (3)
- ENGL 462 Modern Literary Theory (3)
- ENGL 475 Topics in Linguistics (3)

IV. Writing (9 credits in addition to the 3 credits in expository writing that are part of the core requirements)

Students will select one of the following Areas of Focus and complete three courses within that Area of Focus:

- Creative Writing, Poetry and Fiction
- Business, Technical and Professional Writing
- Literary, Critical and Creative Nonfiction Writing

Note: In consultation with their major advisers and with the prior approval of the department chairperson, students may create or modify an Area of Focus.

Creative Writing Area of Focus (9 credits)

- ENGL 311 Writing Poetry (3)
- ENGL 312 Writing Fiction (3)
- ENGL 315 Literary Essay (3)
- ENGL 411 Advanced Poetry Writing (3)
- ENGL 412 Advanced Fiction Writing (3)
- ENGL 417-419 Topics in Writing (when appropriate) (3)

Business, Technical and Professional Writing Area of Focus (9 credits)

- ENGL 310 Writing Argument (3)
- ENGL 313 Academic Essay (3)
- ENGL 317 Writing for Business and Industry (3)
- ENGL 318 Advanced Informational Writing (3)
- ENGL 411 Organizational Communications (3)
- ENGL 417-419 Topics in Writing (when appropriate) (3)

Literary, Critical and Creative Nonfiction Writing Area of Focus (9 credits)

- ENGL 313 Academic Essay (3)
- ENGL 315 Literary Essay (3)
- ENGL 316 Writing about Literature (3)
- ENGL 361 Literary Research and Applied Criticism (3)
- ENGL 417-419 Topics in Writing (when appropriate) (3)

V. Elective (3 credits)

Any course in literature, writing, honors or practical experience. May include ENGL 490, 497, 498 or 499.

MINOR IN CREATIVE WRITING

Recognizing that all good writing is an act of imagination, ordering, and synthesis that transcends subject-matter boundaries, the Creative Writing minor is designed for students with academic concentrations outside the field of English who desire to develop their present writing skills beyond those specifically geared to their chosen disciplines, and to do this under the supervision of professional writers.

Students minoring in Creative Writing must complete 24 credit hours with a grade equivalent of 2.00 or higher in each course. At least 15 credit hours must be earned at the 300-400 level. Courses should be selected in consultation with the student's minor adviser in the Department of English. Students are encouraged to complete ENGL 102 as soon as possible.

Core Requirements (12-15 credits)

Select at least four courses in creative writing from the following:

- ENGL 283 Introduction to Creative Writing (3)
- ENGL 311 Writing Poetry (3)
- ENGL 312 Writing Fiction (3)
- ENGL 315 Literary Essay (3)
(Recommended for students who do not fulfill the GenEd I.D requirement with a course in their major)
- ENGL 411 Advanced Poetry Writing (3)
- ENGL 412 Advanced Fiction Writing (3)
- ENGL 417 Topics in Writing (3)
(May be selected only when the topic pertains to creative writing)
- ENGL 490 Independent Study (3)
(May be selected only when the topic pertains to creative writing)

Formal Study of a Genre (3 credits)

Select one course from the following:

- ENGL 261 Tradition and Form in Western Poetry (3)
- ENGL 263 Tradition and Form in Western Fiction (3)
- ENGL 265 Tradition and Form in Western Drama (3)

Literature Courses (6-9 credits)

Select at least two courses in literature. One of these courses must be at the 300-400 level.

MINOR IN ENGLISH

Students must complete 24 credit hours of work, including ENGL 102, Writing for a Liberal Education, 6 hours of 200-level courses, 6 hours of upper- or lower-level courses, and 9 hours of upper-level courses. No specific courses or blocks of courses are stipulated for the minor; each student works with a departmental adviser to design a coherent and purposeful individual program.

MINOR IN WORLD LITERATURE

Students must complete 24 hours in the following distribution; ENGL 102 or 190, 241 or 242, and at least 12 hours of upper-division World Literature courses. Students may submit up to 6 hours of related upper-division courses from offerings in the departments of Modern Languages and History. Additionally, students will work with a departmental adviser to design programs which, while individually tailored, will be coherent and purposeful.

COURSE PREREQUISITES

Course prerequisites are noted in the course descriptions. The department strictly enforces prerequisites.

MEETING GENERAL EDUCATION REQUIREMENTS/COMPETENCY

Every student in the university must complete ENGL 102 or ENGL 190 with a grade equivalent of 2.00 or higher to satisfy the GenEd I.A requirement.

Students may take additional courses to complete GenEd requirements. Many 200-level and some 300-level courses fulfill GenEd requirements.

Philosophy, art, history, speech and theatre GenEd courses provide especially effective background for an English major. Students are encouraged to select elective courses in these areas in addition to those which fulfill GenEd requirements.

Students may select any of the following advanced writing courses to fulfill GenEd I.D: ENGL 310; ENGL 313; ENGL 315; ENGL 316; ENGL 317; ENGL 318. Students may, of course, take additional elective credits in English.

Some students will be required to complete special competency courses in language and writing in addition to meeting GenEd requirements in English. Students for whom English is not a native language may be required to complete courses in English as a Second Language as a prerequisite to enrollment in ENGL 102, Writing for a Liberal Education (see **International Undergraduate Admissions**). Students whose entering scores indicate they need additional preparation to meet the standards of college-level expository writing will be required to complete DVWR 101, Preparation for College Writing, as prerequisite to enrollment in ENGL 102. Students must earn a grade of S or a grade equivalent of 2.00 or higher in the Developmental Writing course they are required to take before they are eligible to enroll in ENGL 102.

TRANSFER CREDIT POLICY

The Department of English accepts English credits from accredited colleges and universities. However, to meet GenEd requirements, students must either present 3 transfer credits in a college-level composition course, with a grade equivalent of 2.00 or higher, or earn a grade equivalent of 2.00 or higher in ENGL 102 or ENGL 190 at Towson University. Students registering in the department's major and minor programs must complete a minimum of 12 credits in Department of English offerings at Towson University.

ADVANCED PLACEMENT AND CREDIT FOR PRIOR LEARNING

The department awards credit through the Advanced Placement Program of the university. Also, a selected number of entering freshmen are placed in ENGL 190 rather than ENGL 102. The department offers credit for most courses, other than upper-level writing courses, through the Credit for Prior Learning Program. Students applying for credit under this program complete an examination, an interview and at least one paper in the area.

ENGLISH HONORS AND ACTIVITIES

The department participates in the Honors Program. As a member of the Honors College, the department offers a number of intensive introductory seminars for qualified students. It also sponsors departmental honors whereby students pursue independent study leading to the completion of a thesis. Students interested in departmental honors should consult the chair of the department no later than the first semester of their junior year. Honors are designated on the graduate's transcript and diploma.

By a vote of the English faculty, the outstanding graduate in the department receives the Gerry Buettner Award at commencement.

Lambda Iota Tau is the national literary honor society with a chapter in the department, and the English Club is an informal association of majors, minors and professors who meet to exchange ideas about literature.

Students may publish in two literary publications: *Grub Street* and *Ladysmith*.

DOUBLE MAJOR PROGRAM

Students who major in one of the other programs of the university but feel a strong interest in language, literature or writing are urged to explore the value of completing a double major with their adviser or with the chair of the Department of English.



Environmental Science and Studies Program

Director: Jane L. Wolfson

Faculty, Environmental Studies: Daniel Agley (*Health Science*), Kent Barnes (*Geography and Environmental Planning*), Allaire Brumfield (*History*), Lillian Carter (*Health Science*), James DiLisio (*Geography and Environmental Planning*), Kenneth Haddock (*Geography and Environmental Planning*), Daniel Kealey (*Philosophy and Religious Studies*), Chang Kong (*Economics*), Ling Li (*Economics*), Toni Marzotto (*Political Science*), Jeffrey Michael (*Economics*), John Morgan (*Geography and Environmental Planning*), Dennis Muniak (*Political Science*), Thomas Rhoads (*Economics*), Martin Roberge (*Geography and Environmental Planning*), Stephen Scales (*Philosophy and Religious Studies*), Ralph Scott (*Geography and Environmental Planning*), Timothy Sullivan (*Economics*), Wing-Chun Wong (*Philosophy and Religious Studies*), Tamara Woroby (*Economics*)

Faculty, Environmental Science: Rachel Burks (*Physics, Astronomy and Geosciences*), Nordulf Debye (*Chemistry*), Jonathan Filer (*Physics, Astronomy and Geosciences*), Donald Forester (*Biological Sciences*), Susan Gresens (*Biological Sciences*), Richard Hilton (*Biological Sciences*), James Hull (*Biological Sciences*), Scott Johnson (*Biological Sciences*), David Larkin (*Chemistry*), Jay Nelson (*Biological Sciences*), Gerald Robinson (*Biological Sciences*), Lev Ryzhkov (*Chemistry*), Aubrey Scarbrough (*Biological Sciences*), Erik Scully (*Biological Sciences*), Joel Snodgrass (*Biological Sciences*), Joseph Topping (*Chemistry*), Jay Valdes (*Biological Sciences*), Donald Windler (*Biological Sciences*), Jane Wolfson (*Biological Sciences*), Daniel Wubah (*Biological Sciences*)

OFFICE

Smith Hall 348, 410-830-4920

THE PROGRAM

The Environmental Science and Studies Program has two primary educational objectives. One is to provide the fundamental scientific, technical and social knowledge that program graduates will need to assess, plan and evaluate environmental concerns, particularly those confronting metropolitan regions. The second is to instill the wide range of cognitive skills and content mastery which students will need to effectively analyze environmental issues and propose realistic plans for solving environmental problems at local, regional and national levels.

The core requirements of the program are structured to meet these two objectives and include mathematical and scientific foundations as well as extensive interdisciplinary study related to environmental issues. The required capstone seminar integrates the student's program of study, and the senior internship/research requirement gives first-hand practice in an environmental field. The environmental problems addressed in many classes and seminars will focus on the adjacent urban/suburban region and its impact on the surrounding environment.

Most environmental problems resist solutions from any single discipline. To counter this dilemma, the program utilizes a rigorous interdisciplinary approach. The curriculum draws upon the expertise of faculty in the areas of biology, chemistry, geology, mathematics, physics, environmental ethics and values, public policy, economics, geography, public health and social change.

MAJOR IN ENVIRONMENTAL SCIENCE AND STUDIES

The Environmental Science and Studies Program has two concentrations: Environmental Studies and Environmental Science. There is considerable overlap in the core courses between the two concentrations. As students progress through the program, they begin to specialize in their area of greatest interest. The senior year brings students from both concentrations together for a capstone course that emphasizes application of concepts to real world problems. The Environmental Studies Concentration is described below. For information about the Environmental Science Concentration, see the College of Science and Mathematics.

ENVIRONMENTAL STUDIES CONCENTRATION

After completing 54-56 credits in common core requirements, students in the Environmental Studies Concentration complete one of four tracks: Directed Environmental Studies, Environmental Geographic Analysis, Environmental Policy/Management, and Environmental Health. Each track requires 15 additional credit hours.

Common Core Requirements (54-56 credits)

All students in the program will complete a common core of course work establishing the scientific principles and mathematical skills needed as a foundation for more specialized study. They also will complete a core of courses in social sciences, a capstone course, and an upper-level internship or research course.

Of the total credits in program requirements, a minimum of 23 may be used to fulfill GenEd requirements (identified by an asterisk following the course number), effectively reducing the number of credits that apply solely to the Environmental Science and Studies major.

Note: Courses designated with "xx" did not have numbers assigned in time for publication. Please see department or program office for information.

Natural Sciences (15 credits)

- BIOL 201* Cellular Biology and Genetics (4)
- BIOL 202* Introduction to Ecology, Evolution and Behavior (4)
- CHEM 1xx Introduction to Environmental Chemistry (3)
- GEOL 121* Physical Geology (4)

Mathematics and Statistics (6-8 credits)

- A. *One of the following:*
 - MATH 119* Pre-Calculus (4)
 - MATH 211* Calculus for Applications (3)
- B. *One of the following:*
 - MATH 231* Basic Statistics (3)
 - MATH 237* Elementary Biostatistics (4)
 - GEOG 375 Quantitative Methods in Geography (3)
 - ECON 205* Statistics for Business and Economics (3)

Social Science Requirement (27 credits)

- PHIL 255* Environmental Ethics (3)
- GEOG 101* Physical Geography (3)
- GEOG 410 Environmental Geography (3)
- ECON 201* Microeconomic Principles (3)
- ECON 375 Environmental Economics (3)
- ENGL 318* Advanced Informational Writing (3)
- POSC 103* American National Government (3)
- or
- POSC 207* State and Local Government (3)
- POSC 421 Politics and Environmental Policy (3)
- HLTH 451 Ecological Aspects of Health (3)

Seminar and Application (6 credits)

- ENVS 482 Environmental Research
- ENVS 485 Environmental Internship (3)
- or
- ENVS 491 Senior Seminar

ENVIRONMENTAL GEOGRAPHIC ANALYSIS TRACK (15 credits)

Students will complete the following courses and any additional 3-credit elective from the Environmental Studies elective course list, below.

- GEOG 221 Map Interpretation (3)
- GEOG 412 Introduction to Geographic Information Systems (3)
- GEOG 416 Principles of Remote Sensing and Digital Image Processing (3)
- GEOG 481 Environmental Impact Analysis (3)

ENVIRONMENTAL POLICY/MANAGEMENT TRACK (15 credits)

Any five courses from the following:

- ECON 325 Economic Development (3)
- ECON 337 Public Finance (3)
- ECON 351 Urban Economics (3)
- ECON 47x Environmental Law and Regulation (3)
- ECON 47x World Politics and the Environment (3)
- PHIL 319* Science, Technology and Values (3)
- POSC 488 Energy and the Environment (3)
- or
- POSC 488 Seminar: Public Policy Analysis (3)

ENVIRONMENTAL HEALTH TRACK (15 credits)

Any five courses from the following:

- GEOG 329 Medical Geography (3)
- GEOG 385 Population Geography (3)
- GEOG 415 Geographic Aspects of Pollution (3)
- GEOG 470 Seminar: Selected Topics in Medical Geography (3)
- HLTH 333 Food Safety Science
- HLTH 435 Epidemiology (3)
- POSC 488 Seminar: Public Policy Analysis (3)

DIRECTED ENVIRONMENTAL STUDIES TRACK (15 credits)

Students complete 15 credits from the list of Environmental Studies electives. All students selecting this track should, in consultation with their adviser, develop a coherent course of study that includes five courses from this list. This list of courses, to be identified late in the sophomore year, is submitted to the program director for approval.

Environmental Studies Electives

- ECON 202* Macroeconomics (3)
- ECON 309 Intermediate Price Theory (3)
- ECON 325 Economic Development (3)
- ECON 337 Public Finance (3)
- ECON 339 Health Economics (3)
- ECON 351 Urban Economics (3)
- ECON 47x Topics in Economics: Benefit/Cost Analysis (3)
- ECON 47x Environmental Law and Regulation (3)
- ECON 47x World Politics and the Environment (3)
- GEOG 221 Interpretation of Maps (3)
- GEOG 319 Soils and Vegetation (3)
- GEOG 329 Medical Geography (3)
- GEOG 383 Natural Resources and Society (writing course) (3)
- GEOG 385 Population Geography (3)
- GEOG 393 Transportation and Infrastructure Planning (3)
- GEOG 405 Comprehensive Planning (3)
- GEOG 411 Studies in Natural Hazards (3)
- GEOG 412 Introduction to GIS (3)
- GEOG 414 GIS Application (3)
- GEOG 415 Geographical Aspects of Pollution (3)
- GEOG 416 Principles of Remote Sensing and Digital Image Processing (3)
- GEOG 470 Seminar: Selected Topics (i.e., Water Resources) (3)

GEOG 481	Environmental Impact Analysis (3)
GEOG 484	Land Use Planning (3)
GEOG 495	Directed Readings (3)
GEOG 496	Independent Research (3)
HIST 4xx	Ecological Archaeology (3)
HIST 4xx	Ecological History (3)
HLTH 435	Epidemiological Basis of Disease (3)
HLTH 491	Health Directed Readings (3)
PHIL 319*	Science, Technology, and Values (3)
PHIL 380	Eco-Philosophy (3)
POSC 305	Urban Government (3)
POSC 375	Public Administration
POSC 432	U.S. Russian Relations (3)
POSC 488	Seminar: Selected Topics (i.e., Public Policy Analysis) (3)
PSYC 341	Environmental Psychology (3)
SOCI 329	Demography (3)

MINOR IN ENVIRONMENTAL STUDIES

Students may minor in Environmental Studies by taking five key core courses and fulfilling an additional 6-8 credit requirement for the minor (21-23 credits total).

All students minoring in Environmental Studies take the following five core courses for a total of 15 credits:

ECON 375	Environmental Economics (3)
GEOG 410	Environmental Geography (3)
HLTH 451	Ecological Aspects of Health (3)
PHIL 255	Environmental Ethics (3)
POSC 421	Politics and Environmental Policy (3)

Science majors who minor in Environmental Studies take two additional 3-credit elective courses from the list of Environmental Studies electives. Total credit requirement for the minor for science majors is 21 credits.

Non-science majors who minor in Environmental Studies take 8 credits in the Environmental Sciences. A one-year sequence in a science with lab (8 credits) selected from the Environmental Science and Studies core (BIOL 201-202, CHEM 110-111) satisfies this requirement. Total credit requirement for the minor for non-science majors is 23 credits.

*Courses may be used to fulfill General Education requirements.

Family Studies Program

Director: Sandra Carson Stanley

Affiliated Faculty: Donna Cox (*Health Sciences*), Karen G. Eskow (*Occupational Therapy*), Barry Frieman (*Early Childhood Education*), Sandra Carson Stanley (*Sociology, Anthropology and Criminal Justice*), Donna L. Wagner (*Gerontology*)

OFFICE

Linthicum Hall 301H, 410-830-2849

THE PROGRAM

Family Studies offers the opportunity to study individual and family development, dynamics within families, and the interaction between families and the larger social context. The program provides academic and practical experience related to the study of and service to families within three choices of concentration: family services and family life enhancement; family policy and planning; and services to children.

MAJOR IN FAMILY STUDIES

Majors in Family Studies complete 48 credits of course work drawn from throughout the curriculum in the university. Students complete 21 credits in the core curriculum. For each concentration, they complete 15 additional required credits related to the area of study, and 12 credits of approved electives. All students must meet Towson University requirements for the completion of a Bachelor of Arts or Bachelor of Science degree. Contact the program director for more information.



Department of Geography and Environmental Planning

Professors: James Dilisio, Kenneth Haddock (*Chair*), Wayne McKim, John Morgan, Ralph Scott

Associate Professor: Kent Barnes

Assistant Professors: Martin Roberge, Charles Schmitz, Marshall Stevenson, Virginia Thompson

Part-time Faculty: Jeanne Armacost, Charles Boas, Philip Canter, Robert Cullison, Charles Goodman, Sophia Harmes, Dale Johnson, Ingrid Johnson, William Manns, Henry Schupple, Betty Shimshak, Donald Stahl, Dean Turner

OFFICE

Linthicum Hall 20, 410-830-2973

PROGRAMS OF THE DEPARTMENT

The Department of Geography and Environmental Planning offers the following programs: the major in Geography and Environmental Planning, the minor in Geography, the Master of Arts in Geography and Environmental Planning, and the Master of Education with an emphasis in Geography. For more information about the graduate programs, consult the *Graduate Catalog*.

The Geography and Environmental Planning major is designed as a liberal arts program that explores how geographers carefully observe and measure human uses of the earth under diverse combinations of natural and cultural environments. Such academic preparation facilitates understanding of the changing world and its past.

Students are prepared in the program for careers in business, management, governmental service, education, planning, public affairs and other professions, as well as graduate school.

DOUBLE MAJORS

The department has established cooperative programs with the departments of Economics, Political Science, and Sociology, Anthropology and Criminal Justice, which make it possible for students to attain majors in both geography and one of these other disciplines. For further information, contact the Department of Geography and Environmental Planning or one of the cooperating departments listed above.

MAJOR IN GEOGRAPHY AND ENVIRONMENTAL PLANNING

Geography majors must complete a minimum of 39 semester hours in geography courses with a grade equivalent of 2.00 or higher. Of these 39 hours, 18 hours of core courses are required plus 6 hours of prescribed group courses. The remaining 15 semester hours in the major are selected from 200-400 level geography electives reflecting the student's areas of interest. A maximum of 6 hours of these electives may be taken at the 200 level.

Core Requirements (18 credits)

- GEOG 101 Physical Geography (3)
- GEOG 109 Human Geography (3) or GEOG 102 (3) or 105 (3) or 110 (3)
- GEOG 221 Interpretation of Maps (3)
- GEOG 223 Physical Geography Applications (3)
- GEOG 375 Quantitative Methods in Geography (3)
- GEOG 401 Growth of Geographic Thought (3)

Group Requirements (6 credits)

Majors must select at least *one* techniques course and at least *one* regional course. These courses may be selected from the following:

Technical Courses

Select at least one:

- GEOG 321 Interpretation of Aerial Photographs (3)
- GEOG 323 Cartography and Graphics I (3)
- GEOG 412 Introduction to Geographic Information Systems (3)
- GEOG 416 Principles of Remote Sensing and Digital Image Processing (3)
- GEOG 418 Computer Mapping (3)

Regional Courses

Select at least one:

- GEOG 420 Geography of Anglo America (3)
- GEOG 423 Geography of Maryland (3)
- GEOG 431 Geography of Africa (3)
- GEOG 424 Historical Geography of Atlantic Canada (3)
- GEOG 443 Geography of East Asia (3)
- GEOG 445 Geography of South and Southeast Asia (3)
- GEOG 447 Geography of the Middle East (3)
- GEOG 448 Conflict in Ireland (3)
- GEOG 451 Geography of Europe (3)
- GEOG 453 Geography of the former U.S.S.R. (3)
- GEOG 461 Geography of Latin America (3)

DOUBLE MAJOR IN GEOGRAPHY AND SOCIOLOGY/ANTHROPOLOGY

The departments of Geography and Environmental Planning and Sociology, Anthropology and Criminal Justice offer a program leading to a bachelor's degree with a double major in Geography and Environmental Planning and Sociology/Anthropology, with the Sociology/Anthropology major concentrated in Sociology.

I. The following lower-division courses must be taken:

- A. GEOG 101 Physical Geography (3)
- B. SOCI 101 Introduction to Sociology (3)
(Both A and B count toward General Education requirements.)

II. One of the following statistics courses must be taken:

- A. GEOG 375 Quantitative Methods in Geography (3)
or
Behavioral Statistics (3)
- B. PSYC 212 Behavioral Statistics (3)
or
C. MATH 231 Basic Statistics I (3)
(Any of these courses will count as 3 credits in either Geography or Sociology and satisfy the statistics requirement in both programs. You cannot receive credit in both the first and second major for more than one of these courses.)

III. Two of the following sociology courses must be taken:

- SOCI 313 Introduction to Social Psychology (3)
- SOCI 320 Military Sociology (3)
- SOCI 323 Social Change (3)
- SOCI 327 Urban Sociology (3)
- SOCI 329 Demography (3)
- SOCI 331 Organizations (3)
- SOCI 333 Political Sociology (3)
- SOCI 335 Medical Sociology (3)
- SOCI 341 Class, Status and Power (3)
- SOCI 359 Social Gerontology (3)
- SOCI 391 Research Methods (3)
- SOCI 470-479 Special Topics in Sociology (3) (Topics offered here may be accepted with approval of the Geography and Environmental Planning department adviser.)

IV. Two of the following geography courses must be taken:

- GEOG 329 Medical Geography (3)
- GEOG 351 Urban Design (3)
- GEOG 355 Historical Geography of Urbanization (3)
- GEOG 357 Cultural Geography (3)
- GEOG 381 Political Geography (3)
- GEOG 383 Natural Resources and Society (second writing course) (3)
- GEOG 385 Population Geography (3)
- GEOG 391 Urban Systems (3)
- GEOG 405 Comprehensive Planning (3)

- GEOG 407 Geography of the Aged (3)
 GEOG 470-479 Seminar: Selected Topics in Geography (3) (Topics offered here may be accepted with approval of the Department of Sociology, Anthropology and Criminal Justice adviser.)
 GEOG 494 Travel Study (3)
 GEOG 495 Directed Reading in Geography (with approval of Department of Sociology, Anthropology and Criminal Justice adviser) (3)
 GEOG 496 Independent Study in Geography (with approval of Department of Sociology, Anthropology and Criminal Justice adviser) (3)

V. The following courses are required to complete the Geography major portion of the double major:

A. Core Courses

- GEOG 102 World Regional Geography (3)
 or
 GEOG 105 Geography of International Affairs (3)
 or
 GEOG 109 Human Geography (3)
 GEOG 221 Interpretation of Maps (3)
 GEOG 223 Physical Geography Applications (3)
 GEOG 401 Growth of Geographic Thought (3)

B. Techniques Course (only one of the following)

- GEOG 321 Interpretation of Aerial Photographs (3)
 GEOG 323 Cartography and Graphics I (3)
 GEOG 47x Computer Mapping (3)
 GEOG 412 Introduction to Geographic Information Systems (3)
 GEOG 416 Principles of Remote Sensing and Digital Image Processing (3)

C. Regional Course (one 400-level regional course)

D. Elective Course (one 300- or 400-level elective)

VI. The following courses are required to complete the Sociology Concentration in the double major:

A. Core Courses

- SOCI 381 Sociological Theory (3)
 SOCI 391 Research Methods (3)

B. Electives

Students must complete 24 credits of electives in Sociology, at least 18 of which must be upper division. Two elective courses (6 credits) may be in Anthropology.

MINOR IN GEOGRAPHY

Students minoring in Geography must complete 18 credit hours in geography and environmental planning courses. Six credit hours must be at the 100-200 level, and 12 credit hours at the 300-400 level. A grade equivalent of 2.00 or higher is required in all courses in the minor.

GEOGRAPHY SECONDARY EDUCATION PROGRAM

Required in major (39 hours): lower-division (100-200) courses (12-18); upper-division (300-400) courses (21-27), at least 12 hours of which must be courses designated as systematic or technique courses.

Required in related subjects (33 hours): History courses: HIST 145, HIST 146, HIST 101, plus 6 hours of history electives; Political Science: POSC 103; Sociology: SOCI 101; Economics: ECON 201 and ECON 202; Anthropology: either ANTH 207, ANTH 208, or ANTH 209; and a specified Topics in Social Science course.

Requirements for Admission to Teacher Education Program

All students applying for admission to a Teacher Education program at Towson University are required to complete a Criminal Background Disclosure Form. This form is to be notarized and sent to the director of CASE to be kept on file.

TRANSFER CREDIT POLICY

Geography and Environmental Planning majors may transfer up to 12 hours toward a major and must earn 21 upper-division credits at Towson.

Geography minors may transfer up to 6 hours toward a minor and must earn 12 upper-division credits at Towson.

INTERNSHIPS

Majors have the opportunity to participate in the university's Internship/Cooperative Education Program. This valuable adjunct to the educational program provides qualifying students with both academic credit and work experience with participating government agencies (federal, state and local) and private businesses. The internship offers the student a way of trying out a potential career choice prior to actual entry into the job market. Because the benefits of this experience are so positive, majors are strongly urged to participate in this program.

SPECIAL DEPARTMENTAL PROGRAMS

The department sponsors the Beta Delta Chapter of Gamma Theta Upsilon, an international geography honorary society. GTU holds lectures and presents films and speakers on topics in Geography and Environmental Planning. All Geography majors are welcome to join.

Travel studies are available during the Minimester and summer to United States and foreign locations.

The National Council for Geographic Education awards are given to academically outstanding graduating majors.

Careers in Geography and Environmental Planning

Faculty of the department are active in career advising. Occasional careers days are held, and the department participates in a regional network of career advising in geography. Graduates of the department are currently employed in a wide array of jobs such as teachers, professors, meteorologists, intelligence analysts with the Department of Defense, cartographers, planners, statisticians, travel agents, and environmental engineers.

GRADUATE PROGRAM

The Master of Arts degree program in Geography and Environmental Planning is designed to prepare students for doctoral programs as well as for career opportunities in private business and public agencies. The program is oriented toward applied geography and presents possibilities for an emphasis in the following areas: urban and regional planning, urban studies, public policy issues, physical geography, environmental assessment, energy resources, cultural and historical geography, medical geography, population, area studies, cartography and geographic information systems.

Graduate students in Geography and Environmental Planning are encouraged to take pertinent course work in other departments. Students may pursue either the Thesis Program (30 credits and a 6 credit thesis) or the Non-Thesis Program (36 credits). Detailed information is given in the *Graduate Catalog*.

Gerontology Program

Director: Donna Wagner

Faculty: Patricia Alt (*Health Science*), Mary Blann (*Kinesiology*), Janet Cogliano (*Nursing*), Sonia Coleman (*Occupational Therapy*), Donna Cox (*Health Science*), Kenneth Haddock (*Geography and Environmental Planning*), Cynthia Kielinen (*Nursing*), Karla Kubitz (*Kinesiology*), Barbara Laufer (*Communication Sciences and Disorders*), Mara Lauterbach (*Biological Sciences*), Ling Li (*Economics*), Alan Miller (*Marketing*), Wayne Nelson (*Health Science*), Howard Nixon (*Sociology, Anthropology and Criminal Justice*), S. Maggie Reitz (*Occupational Therapy*), Marlene Riley (*Occupational Therapy*), Guy Sedlack (*Sociology, Anthropology and Criminal Justice*), Michael Seganish (*Accounting/Business Law*), Kim Shifren (*Psychology*), Jan Sinnott (*Psychology*), Jay Stanley (*Sociology, Anthropology and Criminal Justice*), Regena Stevens-Ratchford (*Occupational Therapy*), Donna Wagner (*Gerontology*)

OFFICE

Linthicum Hall 308, 410-830-4644

THE PROGRAM

The Gerontology Program at Towson University offers an undergraduate degree program leading either to the Bachelor of Arts or Bachelor of Science degree. The course work is multidisciplinary and provides students with an understanding of the scope of gerontology, the issues which are central to the study of aging, and a perspective from which to understand the phenomenon of human aging and its implications on society. The program is designed to prepare students for entry-level occupational positions within the field of aging and to provide the knowledge and skills necessary for acceptance by graduate and professional schools for additional gerontological education.

MAJOR IN GERONTOLOGY

Students pursuing a degree in Gerontology must complete a minimum of 45 credits in the program as outlined below and maintain a 2.00 average or better in all required courses. Required elective courses must be approved by students' Gerontology adviser.

Required Core Courses (18-21 credits)

GERO 101	Introduction to Gerontology (3)
PSYC 405	Psychology of Aging (3)
SOCI 359	Social Gerontology (3)
GERO 485	Gerontology Senior Seminar (3)
HLTH 411	Health and Later Maturity (3)
	or
BIOL 313	Biology of Aging
	or
KNES 457	Physiology of Aging
Internship	Internship Arranged with Gerontology Adviser (3-6)

Required Methods Courses (6-8 credits)

Research Methods (approved by Gerontology adviser) (3-4)
Social or Behavioral Statistics (approved by Gerontology adviser) (3-4)

Elective Upper-Level Courses (12 credits)

GERO 301	Social Issues in Human Life Span Technology (3)
GERO 450	Directed Readings in Gerontology (3)
BULA 470	Elder Law (3)
GEOG 407	Geography of the Aged (3)
SOCI 377	Gender and Aging (3)
MKTG 4xx	Marketing for Senior Citizen Lifestyles (3)
KNES 455	Activity Programming for the Older Adult (3)
SOCI 329	Demography (3)
SOCI 360	Sociology of Aging (3)
SOCI 367	Sociology of Death, Dying and Bereavement (3)

Or other upper-level courses approved by Gerontology adviser

Cognate Electives (9 credits)

ANTH 207	Cultural Anthropology (3)
ANTH 209	Anthropology of American Culture (3)
ANTH 211	Honors Anthropology of American Culture (3)
ECON 339	Health Economics (3)
GEOG 329	Medical Geography (3)
HLTH 101	Current Health Problems (3)
HLTH 204	Nutrition and Weight Control for the Consumer (3)
HLTH 207	Health Care in the U.S. (3)
HLTH 208	Mental Health, Stress Management, and Crisis Intervention (3)
HLTH 305	Community Health Administration (3)
HLTH 405	Drugs in our Culture (3)
HLTH 441	Legal and Ethical Issues in Health Administration (3)
OCTH 103	Leisure and Health (3)
OCTH 216	Bio-Psycho-Social Development (3)
KNES 107	Cardiovascular Fitness (3)
KNES 204	Nutrition/Weight Control (3)
KNEX 409	Stress Management (3)
PHIL 361	Ethics of Medicine and Life Science (3)
POSC 375	Public Administration (3)
PSYC 203	Human Development (3)
PSYC 309	Psychopharmacology (3)
PSCY 467	Mid-Life Development (3)
SOCI 101	Introduction to Sociology (3)
SOCI 301	The Family (3)
SOCI 331	Organizations (3)
SOCI 335	Medical Sociology (3)
SOCI 357	Social Welfare (3)

(additional courses may be counted as Gerontology cognate electives at the discretion of the Gerontology Program director)

TRANSFER CREDIT POLICY

Students may transfer no more than 18 credits.

Department of History

Professors: Dean Esslinger, Cindy Gissendanner, John Haeger, Edwin Hirschman, Karl Larew, Douglas Martin, Harry Piotrowski, Patricia Romero, Roderick Ryon, Myron Scholnick, John VanOsdell (*Chair*), Mark Whitman

Associate Professor: Ronn Pineo

Assistant Professors: Nicole Dombrowski, Laura Eldridge,

Lynn Johnson, Steven Phillips

Lecturers: Allaire Brumfield, John Mancini

Part-time Faculty: Patricia Anderson, William Calderhead, Marilynn Larew, Tina Sheller

OFFICE

Linthicum Hall 119F, 410-830-2923

PROGRAMS OF THE DEPARTMENT

The Department of History offers the following programs: the major in History; the History Secondary Education major, for students planning to teach history at the secondary level; and the minor in History. Each of these programs encourages students to explore the study of history in depth. Such investigation leads to an appreciation of the structure and function of the discipline and prepares the student for teaching, for graduate work and for the study of law, theology, archival management, library science, historical preservation and museology. Skills, as well as historical knowledge acquired through the study of the discipline, may also lead to career opportunities in public history, federal, state and local government, and in business and industry. Students may opt for more career flexibility by choosing double majors or by combining History with a minor: History and Art, History and English, History and Women's Studies, History and Business, History and Communication, for example. History majors and minors are also expected to take correlative courses that broaden their academic backgrounds and offer valuable insights into their subjects. The department also strongly recommends the completion of the intermediate level of a foreign language. The department offers courses in the fields of American, European, Asian, African and Latin American history. The offerings are varied. Some courses are chronological, topical or national in scope. Others are in women's, ethnic, business, social, cultural or political history. All courses offered encourage an appreciation of the historical past through lecture/discussion, reading, analysis and writing. Because history explores all aspects of human endeavor, history courses touch upon the insights of all disciplines from the historical perspective.

An internship is a practical application of historical knowledge and skill. An internship may be taken at institutions such as the Maryland Historical Society, Baltimore City Archives, Baltimore Museum of Industry, Jewish Historical Society or Towson University Archives.

The department participates in interdisciplinary programs such as International Relations, Social Science, Women's Studies, the minors in Jewish Studies, Classical Studies, and Lesbian and Gay Studies, and in Interdisciplinary Studies, tracks in American Studies, African-American Studies, Comparative Ethnic Studies, Religious Studies, Latin American Studies, Asian Studies, and Medieval and Renaissance Studies.

MAJOR IN HISTORY

In addition to the General Education (GenEd) requirements, History majors are required to complete 39 credits with a grade equivalent of 2.00 or higher. The Bachelor of Arts degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate courses (or their equivalent) of a modern foreign language.

Required Courses (18 credits)

HIST 101	Introduction to Ancient Civilization (3)
HIST 103	History of European Civilization from the 17th Century (3) or
HIST 108	Honors History of European Civilization from the 17th
HIST 145	History of the United States to the Mid-19th Century (3)
HIST 146	History of the United States since the Mid-19th Century (3) or
HIST 148	Honors History of the United States since the Mid-19th Century (3)
HIST 241	History of European Civilization through the 17th Century (3)
HIST 300	Introduction to Historical Study (3)

Electives (21 credits)

Students must complete 21 credits of electives offered by the department, at least 15 of which must be in upper-division courses. Within the 21 credits of electives, there must be at least one 3-credit course each in American and European history. Nine credit hours must be taken in Asian, African, Latin American or world history. No more than two upper-division courses may be taken with the same instructor (Seminar, HIST 300, Directed Reading, Directed Research, Colloquium and Travel Study are excepted).

MINOR IN HISTORY

History minors are required to complete 24 credits with a grade equivalent of 2.00 or higher from among the following courses.

Required Courses (6 credits)

HIST 300 Introduction to Historical Study (3)

One of the following:

HIST 107	Introduction to History of Islamic Civilization (3)
HIST 109	Introduction to the Civilization of India (3)
HIST 118	Introduction to Japanese Civilization (3)
HIST 119	Introduction to Chinese Civilization (3)
HIST 121	Latin America: Colonial Period (3)
HIST 122	Latin America: National Period (3)
HIST 135	African History and Culture (3)

Lower-Division History Electives (9 credits)

Upper-Division History Electives (9 credits)

(Excluding HIST 300 Introduction to Historical Study)

No more than two upper-division courses may be taken with the same instructor. (HIST 300 is excepted.) Seminar, Directed Reading, Directed Research, Colloquium and Travel Study may not be taken for history minor requirements.

HISTORY SECONDARY EDUCATION PROGRAM

History majors may wish to obtain certification to teach history at the secondary level. Students in this Secondary Education Program receive certification to teach in Maryland upon graduation. See Secondary Education Department requirements.

In addition to the GenEd requirements, and the requirements specified by the Department of Secondary Education, students must complete 54 credits with a grade equivalent of 2.00 or higher from among the courses listed below. Of the 54 credits, 21 must be completed in the required history courses, and 24 in social science courses and 9 credits in history electives before Student Teaching.

Required History Courses (21 credits)

HIST 102	History of European Civilization through the 17th Century (3)
HIST 103	History of European Civilization from the 17th Century (3) or
HIST 108	Honors History of European Civilization from the 17th Century (3)
HIST 145	History of the United States to the Mid-19th Century (3)

- HIST 146 History of the United States since the Mid-19th Century (3)
or
HIST 148 Honors History of the United States since the Mid-19th Century (3)
HIST 300 Introduction to Historical Study (3)
Two of the following:
African History Course (3)
Asian History Course (3)
Latin American History Course (3)
World History Course (3)

History Electives (9 credits)

Students must complete 9 credits of electives offered by the department, at least 6 of which must be in courses at the 300-400 level.

Required Social Sciences Courses (24 credits)

- ECON 201 Microeconomic Principles (3)
ECON 202 Macroeconomic Principles (3)
GENL 401 Topics in Social Science (3)
SOCL 101 Introduction to Sociology (3)
POSC 103 American National Government (3)

One of the following:

- GEOG 101 Physical Geography (3)
GEOG 102 World Regional Geography (3)
GEOG 105 Geography of International Affairs (3)
GEOG 109 Introduction to Human Geography (3)

One of the following:

- POSC 101 Introduction to Political Science (3)
POSC 107 Introduction to International Relations (3)
POSC 137 Governments of the World (3)
POSC 207 State Government (3)

One of the following:

- ANTH 207 Cultural Anthropology (3)
ANTH 209 American Culture (3)

SPECIAL RECOMMENDATIONS FOR MAJORS AND MINORS

Students must declare their majors and minors in the department. The major or minor should be declared during the second semester of the freshman year or at the beginning of the sophomore year. Students will be given major/minor forms listing additional rules for a History major/minor. They will also be required to select an academic adviser who will help in preparing a program of courses. Students should consult their advisers regularly. Students also must update their records each semester. A History minor who wishes to student teach must have completed 15 credits of the required courses in history.

TRANSFER CREDIT POLICY

No more than 18 credits in History will be accepted toward a major or a minor from a regionally accredited four-year college. No more than 12 lower-division credits in History will be accepted toward a major or a minor from a regionally accredited two-year college. The 12 credits must be in lower-division courses which have Towson University equivalents at the 100-200 level.

ADVANCED PLACEMENT AND CREDIT FOR PRIOR LEARNING

The department awards credit through the Advanced Placement Program of the university. The department also offers credit for lower-division courses, and for upper-division courses upon appeal, through the Credit for Prior Learning Program. Students applying for credit under this program complete a departmental examination, an interview and a paper or book review in the field.

DEPARTMENTAL HONORS AND ACTIVITIES

The department offers an honors program in History. Eligibility requirements and rules governing the departmental honors programs are described elsewhere in this catalog. Students interested in the history honors program should consult their adviser and their department chair no later than the first semester of their junior year.

The department sponsors the Theta Beta Chapter of the national History honor society, Phi Alpha Theta. The society presents lectures, films and other programs. Students may inquire about membership requirements at the office of the department.

The department awards at graduation each year the Medal of the Daughters of American Colonists, presented by the Cecilius Calvert Chapter of that organization, and the Disabled American Veterans Prize in History.

The Mary Catherine Kahl Prize is awarded annually to a History major or minor of outstanding promise who has not yet graduated. An essay in History written by the nominees is submitted as an integral part of the prize competition.

The Arnold Blumberg Prize is awarded annually to the senior History major who has compiled the most outstanding record in the field of European History.

Each year, under an endowment established to honor Professor Herbert Duane Andrews, an outstanding scholar will be invited to lecture at the university. The lecture will emphasize scholarly research which demonstrates the integration of History with other disciplines or which utilizes newer methodologies to enhance understanding of traditional areas of specialization.

The department also offers travel-study courses that in the past have introduced students to China, Japan, Mexico and several European countries.

Interdisciplinary Studies Program

Director: Carl Behm

OFFICE

Linthicum Hall 100A, 410-830-3600

THE PROGRAM

The Interdisciplinary Studies major provides students with the opportunity to pursue a program of study that is currently unobtainable through any single discipline at Towson University. The major offers students two alternatives: (1) formally designed thematic options (tracks and minors) and (2) individually designed thematic options.

The formally designed thematic options have been created by interdisciplinary faculty committees under a thematic option alternative. Under the formally designed programs, students are advised by either the coordinator of the track or by a member of its advisory committee. Currently, nine formally designed thematic options are offered at Towson: African-American Studies, American Studies, Animal Behavior, Asian Studies, Comparative Ethnic Studies, Latin American Studies, Medieval and Renaissance Studies, Prelaw and Religious Studies. Students interested in any of these formally designed thematic options should contact that option's coordinator.

When none of the traditional majors or these formally designed thematic options meets the student's needs, then the student may pursue the second Interdisciplinary Studies alternative: the individually designed thematic option. These thematic options provide Towson University students with the opportunity to pursue a major that is available at other colleges or universities but is not available currently at Towson. Examples of such majors include Nature Writing and Recreation Management.

Students interested in the individually designed option should first consult catalogs from universities offering their desired major to determine if Towson University offers the necessary course work to complete the major. Then the student should meet with a faculty member or members who have expertise in the student's proposed area of study. With the help of a faculty member, the student must submit a program of study. The program of study must include a name for the concentration (e.g., Nature Writing), a description of the goals of the concentration, and the requirements of the concentration (i.e., a list of courses to be completed). See the nine formally designed thematic options on the following pages for examples of names, descriptions and requirements of approved programs of study. Contact the coordinator of Interdisciplinary Studies for further information and for help in finding a faculty adviser with relevant expertise. All individually designed programs must be approved by a faculty adviser and by the Interdisciplinary Studies coordinator. No unapproved program of study may be used for graduation.

Regardless if the student selects a formally designed or an individually designed thematic option, all Interdisciplinary Studies majors must complete a minimum of 45 upper-division credit hours (300-400 level). All 45 upper-division hours must be completed with a grade equivalent of 2.00 or higher.

INDIVIDUALLY DESIGNED CORE THEMATIC OPTION

Thematic Options

Students who submit a proposal for a thematic option must meet the following requirements:

1. The required 45 credits must relate to a particular academic theme or area of academic study which incorporates courses from at least three departments or programs.
2. All course work must be upper-division unless the faculty adviser and the Interdisciplinary Studies coordinator approve

the inclusion of some particularly significant course work at the lower-division level. For example, a course important to the student's theme may exist only at the lower division.

FORMALLY DESIGNED THEMATIC OPTIONS

The following formally designed thematic options are available. Requirements for each theme are listed below.

Tracks and Minors

African-American Studies Track
American Studies Track
Animal Behavior Track
Asian Studies Track and Minor
Comparative Ethnic Studies Track and Minor
Latin American Studies Track and Minor
Medieval and Renaissance Studies Track and Minor
Religious Studies Track

Pre-Professional Preparation

Prelaw Program

MINORS

Towson University offers the minor in Business, Communication and the Liberal Arts; Classical Studies; Irish Studies; Jewish Studies; and Lesbian and Gay Studies. These programs are listed here because they are interdisciplinary in content and structure. Students in any major may elect to pursue these minors.

TRANSFER CREDIT POLICY

Interdisciplinary Studies majors may transfer up to 21 credit hours toward completion of the major. Interdisciplinary Studies minors may transfer up to 9 credit hours toward completion of the minor.

AFRICAN-AMERICAN STUDIES TRACK

Advisory Committee: Lena Ampadu (*English*), Camille Clay (*Office of Diversity Resources*), John Gissendanner (*English, Coordinator*), John Murungi (*Philosophy and Religious Studies*)

OFFICE

Linthicum 201J, 410-830-2863

The Program

The African-American Studies Program offers students the opportunity to study in-depth the historical and cultural existence of African Americans by examining their unacknowledged roles in American society and the presence and importance of the black aesthetic culturally, socially, politically and economically. An interdisciplinary program concentrating mainly in the humanities, the curriculum of the African-American Studies Program is subject to review and flexibility, as courses may be added with the permission of the advisory committee.

Students may choose a track in the program, select courses to structure a track within the Interdisciplinary Studies Program, or simply take courses as electives.

New courses, special topics, and Minimester courses may be accepted toward the major with approval of the committee.

For further information, please contact one of the advisers.

Requirements for the Track

1. Students must satisfy General Education (GenEd) requirements with the following recommended or required courses:

ENGL 230 Main Currents in American Literature (3) (recommended)

HIST 146 U.S. History since Mid-19th Century (3) (required)

NOTE: Only one of these courses can be counted for GenEd II.B.1, though both are recommended for the track.

SOCI 101 Introduction to Sociology (3) (required)

2. To declare the track, students must be at least sophomores with a 2.00 QPA.

3. Students must take a minimum of 45 semester hours of upper-division work from the arts and sciences: art, biology, chemistry, economics, geography, history, mathematics, modern languages, music, philosophy, physics, political science, psychology, sociology, speech and theatre.

4. Students must complete 15 hours from the following:

ENGL 233 Survey of African-American Literature (3)

ENGL 234 Major Writers in African-American Literature (3)

ENGL 347 World Literature Written in English (3)

HIST 133 History of Africa: Earliest Times to the 19th Century (3)

HIST 135 African History and Culture (3)

HIST 145 History of the U.S. to the Mid-19th Century (3)

HIST 146 History of the U.S. since the Mid-19th Century (3)

HIST 381 African-American History to the Mid-19th Century (3)

HIST 484 Historical Themes: Minority Women in the U.S. (3)

5. Students must complete 15 hours from the following courses.

One of the following:

POSC 341 African Government and Politics (3)

POSC 435 Africa in World Politics (3)

GEOG 431 The Geography of Africa (3)

Two of the following:

ENGL 477 Literature of Black America (3)

SOCI 241 Blacks in America: Myths and Realities (3)

SOCI 341 Class, Status and Power (3)

SOCI 343 Minority Groups (3)

SOCI 370 Topics in Sociology: Black-White Relations (3)

Two of the following:

ARTH 335 African-American Art (3)

ECON 351 Urban Economics (3)

GENL 241 The Ethnic Experience in America (3)

HIST 375 The City in American History (3)

PHIL 251 Contemporary African-American Thought (3)

PHIL 270-279 Philosophical Perspectives (3)

POSC 305 Urban Government and Politics (3)

POSC 341 African Government and Politics (3)

POSC 435 Africa in World Politics (3)

SOCI 327 Urban Sociology (3)

SOCI 341 Class, Status and Power (3)

SOCI 343 Minority Groups (3)

SOCI 370-79 Topics in Sociology (3) (consult with adviser)

AMERICAN STUDIES TRACK

Advisory Committee: Paul Douglas (*English, Coordinator*), Victor Fisher (*Sociology, Anthropology and Criminal Justice*), Dean Esslinger (*History*), Gary Wood (*English*)

OFFICE

Linthicum 218G, 410-830-2943

The Program

The American Studies Track is an interdisciplinary program that allows students to take courses in different academic departments while still focusing on the concept of American culture. The American Studies approach stresses the interrelatedness of history, literature, the fine and vernacular arts, popular culture, technology and folkways. Students examine American institutions, ideas and material forms in order to better understand their pasts and shape their futures.

The track is designed for those students who may wish to have careers in fields such as teaching, museum work, law and journalism where a broad knowledge of American history and culture is desirable.

Those students interested in material culture or museum work have the opportunity to receive credit for internships at a number of local museums or historical sites.

Requirements for the Track

1. Lower-division requirements: 18 credits from the following list.

AMST 201 Introduction to American Studies (3)

ANTH 207 Cultural Anthropology (3)

ENGL 230 Main Currents in American Literature

ENGL 233 Survey of African-American Literature (3)

ENGL 235 Ethnic American Literature (3)

GEOG 109 Introduction to Human Geography (3)

HIST 145 History of the U.S. to the Mid-19th Century (3)

HIST 146 History of the U.S. since the Mid-19th Century (3)

HIST 147 History of Women in America (3)

POSC 103 American National Government (3)

2. Upper-division requirements: 30 credits from the following list.*

No more than 12 credits in any department.

Anthropology

ANTH 365 North American Indians (3)

ANTH 383 North American Archeology (3)

ANTH 385 Archeology of the American Southwest (3)

American Studies

AMST 370 Topics in American Studies (3)

AMST 491 Directed Readings in American Studies (3)

AMST 497 Practicum in Material Culture (3)

Art History

ARTH 335 African-American Art (3)

ARTH 337 American Art (3)

English

ENGL 331 American Drama (3)

ENGL 353 History of American English (3)

ENGL 431 Literature of the American Romantic Period (3)

ENGL 432 Literature of the American Realistic Period (3)

ENGL 433 American Short Story (3)

ENGL 435 Development of the American Novel: 19th Century (3)

ENGL 436 Development of the American Novel: 20th Century (3)

ENGL 437 American Poetry through Frost (3)

ENGL 438 Modern American Poetry (3)

ENGL 473 Topics in American Literature (3)

ENGL 477 Topics in Black American Literature (3)

Geography

GEOG 420 Geography of Anglo-America (3)

GEOG 423 Geography of Maryland (3)

History

HIST 331 American Military History 1898-1945 (3)

HIST 345 The American Colonies (3)

HIST 346 American Revolutionary Period (3)

HIST 347 American Early National Period (3)

HIST 348 The Jacksonian Era (3)

HIST 349 Civil War (3)

HIST 350 Era of Reconstruction (3)

HIST 351 Age of Enterprise (3)

HIST 352 Age of Reform (3)

HIST 359 The FDR Era (3)

HIST 360 Recent American History (3)

HIST 363 Social History of U.S. to 1865 (3)

HIST 364 Social History of U.S. since 1865 (3)

HIST 366 History of American Business (3)

HIST 367 Development of the U.S. Constitution: 1787-1941 (3)

HIST 368 The Bill of Rights and the Constitution: 1941 to the Present (3)

HIST 370 Diplomatic History of U.S. since 1900 (3)

HIST 373 Early American Frontier (3)

HIST 374 Far Western Frontier (3)

HIST 375	City in American History (3)
HIST 379	History of Native Americans: The East (3)
HIST 380	History of Native Americans: The West (3)
HIST 381	African-American History to the Mid-19th Century (3)
HIST 385	American Labor (3)
HIST 397	History of Maryland from Colonial Times to Present (3)

Political Science

POSC 305	Urban Government and Politics (3)
POSC 355	The Latin American Policy of the U.S. (3)
POSC 381	The Presidency (3)
POSC 383	Congress (3)
POSC 417	American Political Parties (3)
POSC 418	Constitutional Law (3)
POSC 432	U.S.-Soviet Relations (3)
POSC 439	U.S. Foreign Policy in Southeast Asia (3)
POSC 441	Contemporary U.S.-Western European Relations (3)
POSC 445	U.S. Foreign Policy in South Asia (3)
POSC 451	Politics and Religion in the U.S.A. (3)
POSC 491	Seminar: Contemporary U.S. Foreign Policy (3)

Philosophy

PHIL 326	American Philosophy (3)
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Sociology

SOCI 329	Demography (3)
SOCI 356	Prisons in America (3)

Women's Studies

WMST 337	Feminism (3)
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3. Fifteen additional upper-division credits from any arts and sciences disciplines are needed to fulfill the Interdisciplinary Studies requirement of 45 upper-division credits.

*Other courses relating to American culture may be taken with the approval of the coordinator.

ANIMAL BEHAVIOR TRACK

Advisory Committee: Michael Figler (*Psychology*), Donald For-
ester (*Biological Sciences*), Paz Galupo (*Psychology, Co-
Coordinator*), Craig Johnson (*Psychology*), Scott Johnson
(*Biological Sciences*), Jay Nelson (*Biological Sciences*),
Herbert Petri (*Psychology*), Joan Rabin (*Psychology*),
Gerald Robinson (*Biological Sciences*), Aubrey Scarbrough
(*Biological Sciences*), Erik Scully (*Biological Sciences, Co-
Coordinator*)

OFFICE

Smith Hall 261, 410-830-3012

The Program

The study of animal behavior has received an increasing amount of attention from the public because of the emphasis placed by zoological parks on behavioral biology and the large number of presentations in the media regarding animal behavior and sociobiology.

The Animal Behavior Track is designed to offer a solid foundation in the diverse approaches used to study behavioral biology. The program uses a carefully selected combination of courses in biology and psychology to achieve this goal. In addition, students are required to complete either an independent research project or an internship in order to apply their knowledge in an intensive research experience.

Students who complete the program may be qualified for positions at zoological parks, aquariums and nature centers. In addition, they will have the necessary technical knowledge to pursue a career in freelance writing about animal behavior. However, students who are considering attending graduate school will need to complete additional courses in either biology or psychology. Most of the students currently enrolled in the program also are majoring in either Biology or Psychology.

Students who are considering the Animal Behavior Track must meet with one of the program coordinators before declaring Interdisciplinary Studies as a major.

Requirements for the Track

The Animal Behavior Track requires students to complete 45 credit hours with a grade equivalent of 2.00 or higher. If 45 hours have not been reached following completion of the required courses, the additional course or courses must be taken from the Biology or Psychology electives list.

Required Courses (31-32 credits)

BIOL 110	Contemporary General Biology (4)
PSYC 101	Introduction to Psychology (3)
BIOL 207	General Zoology (4)
PSYC 212	Behavioral Statistics (4)
BIOL 371	Animal Behavior (4)
PSYC 460	Ethology and Comparative Psychology (3)
PSYC 314	Experimental Psychology (4)
	or
BIOL 381	Biological Literature (3)
BIOL 413	Evolution (3)
PSYC 491	Independent Research in Psychology (3)#
	or
BIOL 491	Independent Research in Biology (3)#
	or
IDIS 495	Internship in Interdisciplinary Studies

Biology Electives

A minimum of two courses from the following*:

BIOL 351	Field and Systematic Vertebrate Zoology (4)
BIOL 353	Invertebrate Zoology (4)
BIOL 367	Endocrinology (3)
BIOL 402	General Ecology (4)
BIOL 456	Ornithology (4)
BIOL 458	Mammalogy (4)
BIOL 461	Entomology (4)
BIOL 465	Mammalian Physiology (4)
BIOL 467	Herpetology (4)
BIOL 469	Comparative Animal Physiology (4)
BIOL 481	Directed Readings in Biology (1-3)#

Psychology Electives

A minimum of two courses from the following*:

PSYC 305	Psychology of Learning (3)
PSYC 309	Psychopharmacology (3)
PSYC 315	Motivation (3)
PSYC 317	Sensation and Perception (3)
PSYC 341	Environmental Psychology (3)
PSYC 381	Readings in Psychology (1-3)#
PSYC 447	Sex Differences: Psychological Perspectives (3)
PSYC 465	Physiological Psychology (3)
PSYC 485	Experimental Design (4)
PSYC 470-479	Current Topics in Psychology#

#Must be approved by coordinator.

*Students should consult this catalog for course prerequisites and discuss all course selections with their advisers.

ASIAN STUDIES TRACK/MINOR

Advisory Committee: Edwin Hirschmann (*History, Coordina-
tor*), Daniel Kealey (*Philosophy and Religious Studies*),
Ock Kyung Lee (*Art*), Stephen Phillips (*History*)

OFFICE

Linthicum Hall 119N, 410-830-2905

The Program

The Asian Studies Track within the Interdisciplinary Studies major is designed to offer students an interdisciplinary program of study of various dimensions of the Asian world. Students may plan a course of study that concentrates on a particular aspect of

Asian civilization or on a particular sub-region of Asia. One might, for example, focus on the art and philosophy of various Asian peoples, or instead, one might choose to concentrate on Chinese (or Indian or Japanese) civilization, studying both the traditional and modern society, its physical setting, and its political and economic development. In order to build a sound program of study, which meets both the individual student's needs and the Interdisciplinary Studies requirements, it is essential that students work closely with an adviser in planning the program and selecting courses.

A second option open to students interested in specializing in Asian Studies is the International Studies major with a regional specialization.

Requirements for the Track

1. Twelve credit hours of a foreign language appropriate to the student's designated area of interest in Asia. In special cases, this requirement may be waived, but only with the written permission of the advisory committee. The Asian language courses presently offered at Towson are listed below.
2. A minimum of 30 credit hours selected from the following list of courses, but with courses from at least three departments (in addition to language) represented. Other courses not shown on the list, but which are relevant to Asia (such as directed readings courses and Minimester courses), may be accepted with the approval of the advisory committee.

Approved Courses

Art History

- ARTH 331 Art of China (3)
ARTH 333 Art of Japan (3)

Geography

- GEOG 443 Geography of East Asia (3)
GEOG 445 Geography of South and Southeast Asia (3)
GEOG 447 Geography of the Middle East (3)

History

- HIST 107 Introduction to History of Islamic Civilization (3)
HIST 109 Introduction to the Civilization of India (3)
HIST 116 East Asian Civilizations to the 17th Century (3)
HIST 111 Modern East Asia since the 17th Century (3)
HIST 311 Traditional India: Its Historical Development (3)
HIST 312 Modern India (3)
HIST 313 History of Modern Southeast Asia (3)
HIST 315 Imperial China: The Last Dynasty (3)
HIST 316 Revolutionary China (3)
HIST 318 Modern Korea (3)
HIST 319 Japan: 1830-1930 (3)
HIST 320 Japan: 1930-Present (3)

Language

- CHNS 101-102 Elementary Modern Chinese I, II (3, 3)
CHNS 201-202 Chinese Intermediate I, II (3, 3)
JPNS 101-102 Japanese Elements I, II (3, 3)
JPNS 201-202 Japanese Intermediate I, II (3, 3)

Philosophy-Religious Studies

- PHIL 219 Introduction to Asian Philosophy (3)
PHIL 301 Philosophies of India (3)
PHIL 302 Philosophies of China and Japan (3)
PHIL 357 Comparative Religion (3)

Political Science

- POSC 439 U.S. Foreign Policy in Southeast Asia (3)
POSC 445 U.S. Foreign Policy in South Asia (3)

Sociology-Anthropology-Criminal Justice

- ANTH 367 Peoples of the Middle East (3)

Minor in Asian Studies

The minor in Asian Studies is designed for students majoring in another discipline yet interested in acquiring knowledge of Asian nations and cultures without completing the major program above. Students minoring in Asian Studies must complete 21 credits with a grade equivalent of 2.00 or higher in each course. At least three courses (9 credits) must be selected from the lower-division courses listed below, and at least four courses (12 credits) from at least three disciplines must be selected from the list of upper-division courses. Students should select courses in consultation with the Asian Studies Program coordinator.

Lower-Division Courses (9 credits)

- HIST 107 Introduction to Islamic Civilization (3)
HIST 109 Introduction to the Civilization of India (3)
HIST 118 Introduction to Japanese Civilization (3)
HIST 119 Introduction to Chinese Civilization (3)
PHIL 219 Introduction to Asian Philosophy (3)

Upper-Division Courses (12 credits from at least 3 disciplines)*

- ARTH 331 The Art of China (3)
ARTH 333 The Art of Japan (3)
GEOG 443 Geography of East Asia (3)
GEOG 445 Geography of South and Southeast Asia (3)
HIST 311 Traditional India: Its Historical Development (3)
HIST 312 Modern India (3)
HIST 313 History of Modern Southeast Asia (3)
HIST 315 Imperial China: The Last Dynasty (3)
HIST 316 Revolutionary China (3)
HIST 318 Modern Korea (3)
HIST 319 Japan: 1830-1930 (3)
HIST 320 Japan: 1930-Present (3)
PHIL 301 Philosophy of India (3)
PHIL 302 Philosophies of China and Japan (3)

*Students should consult the Course Descriptions section of this catalog to verify prerequisites and should try to select prerequisite courses that fulfill GenEd requirements.

Asian Languages

There is no language requirement for the Asian Studies minor. However, students are encouraged to begin the study of an Asian language. One 3-credit, 100-level language course may be applied toward lower-division course credit.

BUSINESS, COMMUNICATION AND THE LIBERAL ARTS MINOR

Director: Sharon Gibson-Groshon

Faculty Advisory Board: Marlene Cowan (*Mass Communication, Emeritus*), Darush Davani (*Computer and Information Sciences*), Brenda Logue (*Mass Communication*), Garland Keesling (*Marketing*), Linda Mahin (*English*), Stephen Scales (*Philosophy*), Lamont Streedle (*Accounting*), Stuart Stein (*Art*)

Corporate Advisory Board: Dr. Diana Elliott (*Consultant to Management*), Judy Green (*CEO, Green and Associates*), Leslie Keelty (*Director of Training, The Arbitron Company*), Linda Miller (*Vice-President of Human Resources, Baltimore Gas and Electric Co.*), Carroll Nordhoff (*Executive Vice-President, McCormick and Co., Inc.*), Bernard Penner (*Director of Compliance, Maryland Department of the Environment*).

OFFICE

Linthicum Hall 201D, 410-830-2858

The Program

The interdisciplinary minor in Business, Communication and the Liberal Arts was developed in 1997 in response to needs expressed

by national and local business executives. Students possessing this minor to complement their major will help meet the growing demand for graduates who have strong oral and written communication skills, the ability to think critically and creatively in solving problems and a general knowledge of business culture and practices.

Minor in Business, Communication and the Liberal Arts

This rigorous minor for liberal arts majors and others who qualify consists of 24 credit hours. The minor emphasizes the skills that are important for successful job performance over time and recognizes the business community's need for broadly educated, articulate college graduates. Completion of all required minor courses with a minimum 3.00 QPA is a prerequisite for enrollment in IDIS 4xx, Management Skills Integration.

Admission Requirements

Entrance to the minor is competitive and selective. Acceptance into the minor requires a minimum 3.00 quality point average, based upon the completion of at least 9 credits of postsecondary course work, an application essay, and an interview. The Faculty Advisory Board, in conjunction with the director and two program faculty members, will make the final acceptance decisions. Application materials are available in the Interdisciplinary Studies Office, the Office of Admissions, or by calling 410-830-2858. Applications are due by February 15 for admission to the minor for the following fall semester and by October 15 for admission for the following spring.

Required Courses

ACCT 201*	Accounting Principles I (3)
CBEC 101	Introduction to Business (3)
COMM 315	Business and Professional Communication (3)
COSC 111*	Information Technology for Business (3)
ENGL 317	Writing for Business and Industry (3)
IDIS 4xx	Management Skills Integration (3)
PHIL 371	Business Ethics (3)

Completion of all required minor courses with a minimum 3.00 QPA is prerequisite to enrollment in IDIS 4xx.

And one course selected from the following:

ANTH 209*	Anthropology of American Culture (3)
ENGL 263	Tradition of Form in Western Fiction (3)
PHIL 101	Introduction to Philosophy (3)
POSC 107	Introduction to International Relations (3)

* Honors College versions of these courses may be used to also fulfill Honors College requirements.

Recommended Courses

Students in the Business, Communication and the Liberal Arts minor are encouraged to enroll in some of the following courses to fulfill graduation requirements. Students should discuss these options with their advisers. These recommended courses may not be used to replace any of the minor requirements.

COMM 304	Persuasion (3)
COMM 379	Intercultural Communication (3)
ECON 201*	Macroeconomic Principles (3)
FREN 331	French for Business (3)
GEOG 105	Geography of International Affairs (3)
GERM 331	German for Business (3)
HIST 146	History of the U.S. since the Mid-19th Century (3)
IDIS 460-469	Internship in Interdisciplinary Studies (3)
LEGL 225	Legal Environment of Business (3)
MCOM 385	Mass Media and Society (3)
PSYC 209	Consumer Behavior (3)
PSYC 409	Organizational Psychology (3)
SOCI 334	Industrial Sociology (3)
SOCI 335	Medical Sociology (3)
SPAN 331	Spanish for Business (3)

CLASSICAL STUDIES MINOR

Advisory Committee: Allaire Brumfield (*History, Coordinator*), Rose Ann Christian (*Philosophy and Religious Studies*), Victor Fisher (*Sociology, Anthropology and Criminal Justice*), Suzanne Legault (*English*), John McLucas (*Modern Languages*), Helen Pullen (*Art History*)

OFFICE

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The Program

Classical Studies includes the study of Greek and Latin and of ancient history and civilization, extending from the Paleolithic to the fall of the Roman Empire in the West in A.D. 476, which have formed the core of liberal arts learning in the West for centuries. The Classical Studies minor incorporates courses drawn from the language, literature, philosophy, history, archaeology, art, theatre and Jewish studies programs, offering students an opportunity to specialize in the disciplines of antiquity. The Classical Studies minor helps students majoring in various fields to focus their interests and gives coherence to their programs.

Trained to integrate the past with the present, classicists are found not only in their traditional havens — universities, museums, archaeological projects, and research centers — but also as valuable team members in such diverse fields as international business, public educational programs, documentary filmmaking, publishing, marketing, mass communications, medicine, and the law.

Students in the Baltimore-Washington area have unique opportunities for research and hands-on learning at the Walters Art Gallery, the Center for Hellenic Studies, Dumbarton Oaks, the Library of Congress, the Smithsonian, and the libraries of Johns Hopkins University and the University of Maryland.

Minor in Classical Studies

The minor in Classical Studies consists of 24 credit hours. It is designed for students who would like to take a specialized core of classical studies courses.

Required Courses (9 credits)

HIST 101	Introduction to Ancient Civilizations (3)
LATN 101	Latin Elements I (3)
LATN 102	Latin Elements II (3)
	or
GRK 103	Ancient Greek Elements I (3)
GRK 104	Ancient Greek Elements II (3)

NOTE: The language requirement may be waived by passing a proficiency exam; in that case, 6 credits would be made up by choices from the recommended courses listed below.

Recommended Courses (15 credits)

Five additional courses (15 credits) should be chosen from the following list, with no more than two courses (6 credits) in any one department.

Anthropology

ANTH 208	Human Evolution and Prehistory (3)
ANTH 381	Archaeological Methods and Theory (3)

Art History

ARTH 301	Origins of Western Art (3)
ARTH 303	Art and Architecture of Ancient Greece (3)
ARTH 305	Art and Architecture of Ancient Rome (3)

English

ENGL 243	Introduction to Classical Mythology (3)
ENGL 341	History and Literature of the Old Testament (3)
ENGL 351	Historical Linguistics (3)

Geography

GEOG 359 Cultural Geography (3)

History

HIST 275 History of Ancient Israel (3)
 HIST 301 Ancient Near Eastern Civilizations (3)
 HIST 303 Hellenistic Civilization (3)
 HIST 304 Ancient Greek Civilization (3)
 HIST 305 Roman Civilization (3)

Philosophy

PHIL 221 Ancient Greek Philosophy (3)
 PHIL 322 Hellenistic and Medieval Philosophy (3)
 PHIL 355 Interpretation of the Bible; New Testament (3)
 PHIL 470 Plato (3)

Theatre

THEA 211 History of Theatre and Drama to 1600 (3)

COMPARATIVE ETHNIC STUDIES TRACK/MINOR

Advisory Committee: Marilyn Nicholas (*Education*), Frances Rothstein (*Anthropology*), Evelyn Avery (*English, Coordinator*), John Gissendanner (*English*), Barbara Leons (*Anthropology*), Julie Ries (*Communication Sciences and Disorders*)

OFFICE

Linthicum Hall 219D, 410-830-2865

The Program

The Comparative Ethnic Studies Track provides a sound liberal arts and sciences education. It reflects the goals of the university in providing students with some experience in interdisciplinary courses at upper- and/or lower-division levels. Although the Comparative Ethnic Studies Program allows students to take courses in several different and distinct academic disciplines, the program stresses the importance of a comparative framework and the value of interdisciplinary approaches to the American ethnic experience.

The program is designed for students desiring careers in teaching, personnel, human services, social work, criminal justice, law and other professions, for which the Comparative Ethnic Studies Track can provide valuable information and insights. It is also designed for those students who, no matter what their major or career goals, wish to have a broader and deeper understanding of the variety of peoples who comprise modern American society.

Requirements for the Track**Required Courses (9 credits)**

ENGL 235 Ethnic-American Literature (3)
 GENL 241 The Ethnic Experience in America (3)
 SOCI 343 Minority Groups (3)

Electives

Students must select 15 hours from these upper-division courses. No more than two courses may be at the 200 level.

ANTH 365 North American Indians (3)
 ANTH 388 Peasant Cultures (3)
 ECED 425 The Young Black Child in a Multicultural Setting (3)
 ECON 333 Economics of Poverty and Discrimination (3)
 ECON 351 Urban Economics (3)
 EDUC 460 Teaching in a Multicultural/Multiethnic Society (3)
 ENGL 233 Survey of African-American Literature (3)
 ENGL 234 Major Writers in African-American Literature (3)
 ENGL 236 American Indian Literature from 1772-Present (3)
 ENGL 476 Topics in Multiethnic Literature (3)*
 ENGL 477 Topics in Black American Literature (3)

GEOG 385 Population and Settlement (3)
 HIST 277 A Survey of Jewish History (3)
 HIST 375 The City in American History (3)
 HIST 379 History of Native Americans: The East (3)
 HIST 380 History of Native Americans: The West (3)
 HIST 381 African-American History to the Mid-19th Century (3)
 POSC 305 Urban Government and Politics (3)
 SOCI 241 Blacks in America: Myths and Reality (3)
 SOCI 370-379 Topics in Sociology (3)
 379 (The American Jewish Community, when offered)

Up to 7 credits of related language courses at an appropriate level may be applied to the major with the approval of the committee.

*Topics in Multiethnic Literature (ENGL 476) may be taken only once for the 18-credit minor in Comparative Ethnic Studies. However, with permission, ENGL 476 may be taken for credit twice in the track, if different topics are selected.

Recommended Courses

ANTH 207 Cultural Anthropology (3)
 ENGL 230 Literature since 1865 (3)
 HIST 145 History of U.S. to the Mid-19th Century (3)
 HIST 146 History of U.S. since the Mid-19th Century (3)
 HIST 363 Social History of U.S. to 1865 (3)
 HIST 364 Social History of U.S. since 1865 (3)
 SOCI 101 Introduction to Sociology (3)
 SOCI 329 Demography (3)
 SOCI 341 Class, Status and Power (3)

Minor in Comparative Ethnic Studies

Designed for liberal arts students, the Comparative Ethnic Studies minor provides experience in the field and complements the more traditional majors students have chosen. Although not as comprehensive as the track, the minor also offers an interdisciplinary approach and exposure to different cultures in America.

Students must take 18 or more credits from approved courses. All Ethnic Studies minors must take 9 required hours: GENL 241, The Ethnic Experience in America; ENGL 235, Ethnic American Literature; and SOCI 343, Minority Groups or HIST 378, The Immigrant in American History.

An additional 9 or more credit hours should be taken from the approved classes listed for the track. These electives should be upper-division with no more than 6 hours of electives coming from one discipline.

IRISH STUDIES MINOR

Advisory Committee: James DiLisio (*Geography and Environmental Planning, Coordinator*), Evelyn Avery (*English*), Jaimie Carswell (*Theatre Arts*), Thomas Casciero (*Theatre Arts*), John Connolly (*English*), James Coughlin (*Mathematics*), K Edgington (*English*), Clarinda Harriss (*English*), Michael Keating (*English*), Douglas Martin (*History*), James Paulsen (*Art*), Joseph Rudolph (*Political Science*), Michael Stanley (*Mass Communication and Communication Studies*), Timothy Sullivan (*Economics*)

OFFICE

Linthicum Hall 26, 410-830-2971

Fax: 410-830-4702

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The Program

The Irish Studies minor draws on the resources of several different departments in various colleges of the university. The minor is designed for students whose intellectual interest is focused on another discipline, but who would like to enhance their knowledge of Irish culture under the scholarly guidance of faculty

members in an organized program. The program offers an interdisciplinary approach to the study of the Irish experience by way of various viewpoints and methodologies.

The Irish Studies minor complements major academic programs of study such as art, English, economics, geography, history, political science and theatre. This program provides an option for any student in the university interested in Irish culture.

The Irish Studies minor is constantly subject to revision and expansion as a result of regular evaluation and review by an advisory committee representing participating departments. New courses, special topics, minimester courses, directed research and travel study may be accepted for this minor with the approval of the advisory committee. Credits toward the minor may also be earned as part of a study abroad program in Ireland with the approval of the Towson University International Education Study Abroad director and the Irish Studies Advisory Committee.

Minor in Irish Studies

A minimum of 21 credits is required for the Irish Studies minor.

Required Courses (6 credits)

HIST 2xx A Survey of Irish History (3)
ENGL 270 Ideas in Literature: Modern Irish Literature (3)

Electives (15 credits, 9 upper level)

No more than two courses may be taken in any one discipline without permission.

Art
ART 241 Sculpture (3)
ART 338 Blacksmithing (3)
ART 407 Ceramics: Clay Sculpture (3)
ARTH 495 Independent Study in Art History (3)

Economics
ECON 470 Topics in Economics: Irish and British Economic Development (3)
ECON 495 Independent Study (1-3)

English
ENGL 235 Ethnic-American Literature (3)
ENGL 476 Topics in Multiethnic American Literature (3)
ENGL 41M The Anglo-Irish Revival (3)

Geography
GEOG 448 Conflict in Ireland (3)
GEOG 451 Geography of Europe (3)
GEOG 494 Travel and Study in Ireland (3-6)
GEOG 495 Directed Readings in Geography (3)
GEOG 496 Independent Study in Geography (1-6)

Health Science
HLTH 470 Health Workshop: Emerging Issues in International Health (3)

History
HIST 496 Directed Individual Research (2-4)
HIST 497 Directed Reading (2-4)

Interdisciplinary Studies
IDIS 465-467 Topics in Irish Studies (3)

Political Science
POSC 470 Ethnic Conflict and Public Policy (3)

Theatre Arts
THEA 271 Special Topics: Modern Irish Theater (3)

In all electives to be used in the Irish Studies minor, the student's research paper, directed readings, or major project must be related to Ireland and the Irish culture. Other courses related to Irish Studies may be elected with the permission of the Irish Studies advisers.

JEWISH STUDIES MINOR

Advisory Committee: Evelyn Avery (*English, Co-Coordinator*), Arnold Blumberg (*History, Emeritus*), Allaire Brumfield (*History*), Alan Edelstein (*Sociology, Anthropology and Criminal Justice*), George Friedman (*English*), Howard Kaplon (*Mathematics*), Myron Scholnick (*History*), Martha Siegel (*Mathematics*), Ilene Vogelstein (*Mass Communication and Communication Studies*), Mark Whitman (*History, Co-Coordinator*)

OFFICE

Linthicum Hall 219D, 410-830-2865
Fax: 410-830-3999

The Program

Drawing on the resources of six different departments, the Jewish Studies minor is designed for students whose vocational and/or intellectual interest centers on another discipline, but who would also like to deepen their knowledge of Jewish history, literature and religion in an organized, directed manner. Although not as comprehensive as a concentration, the minor offers an interdisciplinary approach to the Jewish experience, set in the wider context of ancient and modern society.

Students from throughout the university are welcome to undertake the minor, despite its course concentration in the College of Liberal Arts.

The Jewish Studies minor will be subject to revision and expansion in the future, as courses are evaluated by a permanent advisory committee which will monitor the program. New courses, special topics, or minimester courses may be accepted for the minor, or counted toward it, with the approval of the advisory committee.

Minor in Jewish Studies

A minimum of 21 hours is required for the minor in Jewish Studies.

Required Courses (6 credits)

HIST 277 A Survey of Jewish History (3)
ENGL 239 19th and 20th Century Jewish Literature (3)

Electives (15 credits, 12 upper level)

No more than two courses may be taken in any discipline

English
ENGL 235 Ethnic-American Literature (3)
ENGL 341 History and Literature of the Old Testament (3)
ENGL 476 Topics in Multiethnic Literature (3) (when topic includes Jewish literature)

Geography
GEOG 447 Geography of the Middle East (3)

History
HIST 275 Ancient Israel (3)
HIST 484 Topics in History (when applicable to Jewish Studies) (3)

Philosophy
PHIL 105 Introduction to the Study of Religion (3)
PHIL 206 Judaism, Christianity and Islam (3)
PHIL 353 Philosophy of Religion (3)
PHIL 357 Comparative Religions (3)

Sociology-Anthropology
ANTH 367 Peoples of the Middle East (3)
SOCI 343 Minority Groups (3)

Hebrew
HEBR 101-102 Elements of Hebrew I, II (3, 3)

Other courses related to Jewish Studies may be elected with the permission of the Jewish Studies advisers.

LATIN AMERICAN STUDIES TRACK/MINOR

Advisory Committee: David Dent (*Political Science*), Colleen Ebacher (*Modern Languages*), Kenneth Haddock (*Geography and Environmental Planning*), Barbara Leons (*Sociology, Anthropology and Criminal Justice*), Ronn Pineo (*History, Coordinator*), Lea Ramsdell (*Modern Languages*), Francis Rothstein (*Sociology, Anthropology and Criminal Justice*)

OFFICE

Linthicum Hall 101E, 410-830-2918

The Program

The Latin American Studies Track within the Interdisciplinary Studies major allows students to approach the study of Latin America as an area from an interdisciplinary perspective. It is an appropriate track for those intending to pursue Latin American Studies or Spanish at the graduate level, for those anticipating living or working in Latin America, or for those wishing to acquire expertise in Latin America for a career in government or business.

The Latin American Studies Committee administers the program. Students should select one of the members of the committee as an adviser.

Training in Latin American studies is an excellent preparation for careers in education, business and government. Graduates find employment with business such as export/import companies, international banks, tour and travel companies, and the international media. Government agencies, such as the State Department and the Department of Immigration seek individuals trained in Latin American Studies. Employment opportunities exist for translators, researchers, and in other areas.

Requirements for the Track

Students in the Latin American Studies Track complete SPAN 301 or its equivalent, and a minimum of 36 credit hours. The track requires 6 credits in foundations courses, 6 credits in advanced study courses, a 6-credit Capstone experience, and 18 credits of electives. Students must complete a minimum of 6 credits in at least three of the following disciplines: anthropology, history, geography, political science or Spanish.

Like all Interdisciplinary Studies majors, students choosing this track must complete a total of at least 45 semester hours of upper division course work from the departments of arts and sciences.

All course work must be completed with a grade equivalent of 2.00 or higher.

1. Foundations (6 credits)

- LAST 100 Latin America: Issues and Approaches (Cornerstone) (GenEd I.B.)
HIST 122 Introduction to Modern Latin America (3)

2. Advanced Study (6 credits)

Select two of the following:

- ANTH 369 Tradition and Revolution in Latin America (3)
or
GEOG 461 Geography of Latin America (3)
or
POSC 351 Government and Politics of Latin America (3)
or
SPAN 312 Culture and Civilization of the Spanish-Speaking Peoples II (3)

3. Capstone Experience (6 credits)

- LAST 493 Internship in Latin American Studies (3-6)
or
LAST 497 Directed Readings in Latin American Studies (3-6)
or
POSC 385 Model Organization of American States (3)
or
Honors Thesis in Latin American Studies Themes (3)
(Open to Honors program students only)
or
Study Abroad experience in Latin America (see guidelines)

NOTE: Latin American Studies students should plan far in advance how they intend to fulfill their Capstone requirement.

4. Electives (18 credits)

Select an additional 18 credits from the list of approved credits in Latin American Studies below.

Anthropology

- ANTH 351 Drugs in the Americas (3)
ANTH 353 Latinas in the Americas (3)
ANTH 366 South American Indians (3)
ANTH 369 Tradition and Revolution in Latin American Society (3)
ANTH 370-379 Topics in Anthropology* (3)
ANTH 470-479 Special Topics in Anthropology* (3)
ANTH 491 Internship I in Anthropology* (3)
ANTH 492 Internship II in Anthropology* (3)
ANTH 495 Independent Research* (3)
ANTH 498 Honors Readings in Anthropology* (4)
ANTH 499 Honors Thesis in Anthropology* (4)
*when concerned with Latin America

Geography

- GEOG 461 Geography of Latin America (3)
GEOG 470-479 Topics in Geography* (3)
GEOG 494 Travel and Study* (3-6)
GEOG 495 Directed Readings in Geography* (3)
GEOG 496 Directed Study in Geography* (1-6)
*when concerned with Latin America

History

- HIST 121 Latin America: Colonial Period (3)
HIST 307 The Andean Republics (3)
HIST 321 History of Mexico: Colonial Period (3)
HIST 322 History of Mexico: National Period (3)
HIST 324 Democratization in Latin America (3)
HIST 484 Historical Themes* (3)
HIST 497 Directed Reading* (1-4)
HIST 498 Honors Directed Reading* (2-4)
HIST 499 Honors Thesis* (4-8)
*when concerned with Latin America

Latin American Studies

- LAST 493 Internship (2-6)
LAST 497 Directed Reading in Latin American Studies (3)

Political Science

- POSC 351 Government and Politics of Latin America (3)
POSC 355 Latin American Policy of the U.S. (3)
POSC 385 Model Organization of American States (3)
POSC 437 Castro and the Cuban Revolution (3)
POSC 490 Independent Study* (1-3)
POSC 491 Seminar: Contemporary US Foreign Policy* (3)
POSC 493 Internship* (3-9)
POSC 498 Directed Readings in Political Science* (1-3)
POSC 499 Honors Thesis* (3)
*when concerned with Latin America

Spanish

- SPAN 302 Composition and Conversation II (3)
SPAN 312 Culture and Civilization of the Spanish-Speaking Peoples II (3)
SPAN 331 Spanish for Business (3)
SPAN 439 Literary Movements in Spanish-American Literature (3)
SPAN 444 20th Century Spanish-American Literature (3)

SPAN 470	Special Topics * (3)
SPAN 491	Directed Readings in Spanish Literature* (1-3)
SPAN 492	Directed Readings in Spanish* (1-3)
*when concerned with Spanish-American topics	

Minor in Latin American Studies

The minor in Latin American Studies requires SPAN 301 or its equivalent, and a minimum of 21 credit hours. Students complete 6 credits in foundations courses, 3 credits in advanced study courses, a 3-credit Capstone experience, and 9 credits of electives. Courses must be selected from at least three of the following disciplines: anthropology, history, geography, political science or Spanish. All course work must be completed with a grade equivalent of 2.00 or higher.

1. Foundations (6 credits)

LAST 100	Latin America: Issues and Approaches (Cornerstone) (GenEd I.B.)
HIST 122	Introduction to Modern Latin America (3)

2. Advanced Study (6 credits)

Select one of the following:

ANTH 369	Tradition and Revolution in Latin America (3) or
GEOG 461	Geography of Latin America (3) or
POSC 351	Government and Politics of Latin America (3) or
SPAN 312	Culture and Civilization of the Spanish-Speaking Peoples II (3)

3. Capstone Experience (3 credits)

Select one of the following:

LAST 493	Internship in Latin American Studies (3) or
LAST 497	Directed Readings in Latin American Studies (3) or
POSC 385	Model Organization of American States (3) or
Honors Thesis in Latin American Studies Themes (3) (Open to Honors program students only)	
Study Abroad experience in Latin America (see guidelines)	

NOTE: Latin American Studies students should plan far in advance how they intend to fulfill their Capstone requirement.

4. Electives (9 credits)

Select an additional 9 credits from the list of approved courses in Latin American Studies.

Suggested Combinations with Latin American Studies Minor

The minor in Latin American Studies provides an excellent complement to the following majors: Anthropology, Business Administration, International Business Major, International Studies, History, Political Science and Spanish. See the coordinator of Latin American Studies for details.

Guidelines for Study Abroad

Students may attend any Latin American Study Abroad program approved by the Towson University Study Abroad Office. Credits earned abroad must be in Latin American Studies-related disciplines to count toward fulfilling the Towson University Latin American Studies program requirements, and are subject to the approval of the Latin American Studies coordinator.

Travel-study courses to Latin America may also count toward the Study Abroad Option of the Latin American Studies Capstone Experience requirement, subject to the approval of the Latin American Studies coordinator.

LESBIAN AND GAY STUDIES MINOR

Advisory Committee: David Bergman (*English*, Coordinator), K Edgington (*English*), M. Paz Galupo (*Psychology*), Cindy Gissendanner (*History*), Joan Rabin (*Psychology*), Deborah Shaller (*Writing Lab/English*), John Tinkler (*English*)

OFFICE

Linthicum Hall 119N, 410-830-2905

The Program

The Lesbian and Gay Studies minor addresses issues of sexual orientation from interdisciplinary and multicultural perspectives. The growing public visibility and awareness of diverse sexualities and their cultural and political ramifications for individuals, social institutions and communities is evident in increased media coverage of political activism and debate related to issues of sexual orientation. Lesbian and Gay Studies is a response to these forces in the contemporary world but also represents a growing field of scholarship which is in the forefront of developing theoretical and methodological innovations in interdisciplinary studies. The Lesbian and Gay Studies minor aims to give students the critical skills to analyze a wide range of issues, including the historical evolution of sexual identities in different cultural settings, the relationship between gender systems and sexual orientation, the development of lesbian and gay cultural institutions, institutionalized forms of heterosexism and homophobia, conflict within and between lesbian and gay communities, and the social and political mobilization of lesbian and gay peoples and their allies in efforts to eliminate discrimination on the basis of sexual orientation.

Educational Objectives

1. To familiarize students with major concepts, theories, substantive findings and works of fiction and nonfiction in the field of Lesbian and Gay Studies.
2. To make students aware of the diversity of the attitudes toward and the experiences of gay men and lesbians in different cultures and historical periods.
3. To examine institutionalized homophobia and heterosexism and their impact on the political, social and economic status of lesbians and gay men.
4. To investigate the relationships between prevailing gender norms and systems and the social construction of heterosexualities and same-sex sexualities and the cultural images associated with them.
5. To examine differences within and between gay and lesbian communities along lines of race, class, gender, ethnicity, age and region and the social and political ramifications of such differences for those communities.
6. To understand the wide range of political strategies used by lesbians and gay men in the past and the present in their struggles against oppression.
7. To trace the historical evolution of sexual identities and the roles of lesbians and gay men in reshaping them.

Required Course

IDIS 102 Introduction to Lesbian and Gay Studies (3)

Electives

Five of the following:

ANTH 370	Topics in Anthropology: Sexual Orientation in Cross-Cultural Perspective (3)
HIST 361	Gays and Lesbians in U.S. History (3)
ENGL 376	Themes in Literature: Gay Themes in American Literature (3)
PSYC 457	Gender Identity in Transition (3)
PSYC 449	Psychology of Lesbian Culture (3)
WMST 338	Women and Sexuality (3)

MEDIEVAL AND RENAISSANCE STUDIES TRACK/MINOR

Advisory Committee: Ralph Blasting (*Theatre Arts*), John
McLucas (*Modern Languages*), Florence Newman
(*English*, Coordinator), John Tinkler (*English*)

OFFICE

Linthicum Hall 201H, 410-830-3864

The Program

By electing the track in Medieval and Renaissance Studies, majors in Interdisciplinary Studies have the opportunity for comprehensive interdisciplinary study of the Medieval and Renaissance periods. A degree in Medieval and Renaissance Studies can lead to fulfilling careers in such areas as teaching, museum work, archival research and freelance writing, as well as to interdisciplinary graduate studies in the Middle Ages and the Renaissance. As a second major, this track provides a special perspective on almost any other field of study. Students in this field have unique opportunities to study the Medieval and Renaissance collections at Baltimore's Walters Art Gallery, Washington's Folger Library, the National Gallery of Art and Dumbarton Oaks.

Honors Program

Students interested in earning honors in Medieval and Renaissance Studies should see their adviser in the program.

Requirements for the Track

Like all Interdisciplinary Studies majors, students choosing this track must take at least 45 semester hours of upper-division course work from the departments of arts and sciences. Of these, at least 36 hours shall consist of course work in subjects related to the Middle Ages and the Renaissance.

Eighteen of the 36 hours shall be distributed as follows: 6 hours in English; 6 hours in history; and 6 hours from two of the following disciplines: art, Latin, modern languages, music, philosophy, and theatre arts.

The remaining 18 hours may be distributed according to students' choices except that no more than 21 hours may come from a single department.

Directed readings, research methods, independent study, honors thesis or minimester courses in Medieval and Renaissance topics, when approved by the Medieval and Renaissance Studies Committee, may be undertaken within the requirements of the departments that offer them and with the approval of the teaching faculty member. Instruction in Latin is available through the Department of Modern Languages at the elementary, intermediate and advanced levels.

Approved Courses

The upper-division courses listed below are applicable to the Medieval and Renaissance Studies Track. An asterisk marks those courses whose subject matter changes from semester to semester and which are not always applicable to the Medieval and Renaissance Studies Track. Before preregistration, the committee will make available a list showing which courses with asterisks are available to Medieval and Renaissance Studies for that semester. The subject matter of some of these courses can be arranged according to students' individual interests. Students wishing to use such courses toward their Medieval and Renaissance Studies Track should consult with their advisers in the program and with the course instructor during the semester before they intend to take the course.

Art History

ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Northern Renaissance Art and Architecture (3)
ARTH 485	*Seminar in Art History (3)

English

ENGL 321	Medieval British Literature (3)
ENGL 322	British Medieval and Renaissance Drama (3)
ENGL 323	British Renaissance Literature (3)
ENGL 324	British Literature of the Later Renaissance (3)
ENGL 425	Chaucer (3)
ENGL 427	Shakespearean Comedy (3)
ENGL 428	Shakespearean Tragedy (3)
ENGL 429	Milton and the Humanist Tradition (3)
ENGL 451	History of the English Language (3)
ENGL 471	*Topics in World Literature (3)
ENGL 472	*Topics in British Literature (3)
ENGL 485	*Seminar in Literary Studies I (3)
ENGL 486	*Seminar in Literary Studies II (3)
ENGL 490	*Directed Studies in English (2-4)
ENGL 494	*Travel Study (3-6)

Geography

GEOG 451	Geography of Europe (3)
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History

HIST 303	Hellenistic Civilization (3)
HIST 304	Ancient Greek Civilization (3)
HIST 305	Roman Civilization (3)
HIST 401	The Early Middle Ages: 300-1050 (3)
HIST 402	The High Middle Ages: 1050-1350 (3)
HIST 403	The Renaissance Era: 1300-1500 (3)
HIST 404	The Reformation: 1500-1648 (3)
HIST 496	*Directed Individual Research (2-4)
HIST 486	*History Seminar (3)
HIST 483	*Biographical Studies in History (3)
HIST 484	*Historical Themes (3)
HIST 494	*Travel and Study (3-6)
HIST 487	*Colloquium (3)
HIST 497	*Directed Reading (2-4)
HIST 499	*Honors Thesis (4-8)

Latin

LATN 301-302	Advanced Latin Readings (3, 3)
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Modern Languages

FREN 321	Survey of French Literature I (3)
FREN 470	*Special Topics in French (3)
FREN 491	*Directed Readings in French Literature (1-3)
GERM 491,492	*Directed Readings in German (1-3)
ITAL 321	Survey of Italian Literature I (3)
SPAN 321	Survey of Spanish Literature I (3)
SPAN 491,492	*Directed Readings in Spanish Literature (1-3)

Music

MUSC 301	History of Music I (3)
MUSC 402	Music of the Baroque Period (3)

Philosophy and Religious Studies

PHIL 322	Hellenistic and Medieval Philosophy (3)
PHIL 440-449	*Philosophical Systems (3)
PHIL 470-479	*Philosophical Problems (3)
PHIL 495	*Research Tutorial in Philosophy (3)

Recommended Courses

This list contains lower-division courses whose content is largely in the Medieval and Renaissance areas or their backgrounds; and lower- and upper-division courses whose methodologies are valuable to students of the Middle Ages or the Renaissance. The upper-division courses can be counted toward students' 45

semester hours in the Interdisciplinary Studies major. An asterisk marks courses that serve as prerequisites for approved upper-division courses.

Art History

- ARTH 105 Art in the Culture (3)
 *ARTH 221 Survey of Western Art I (3)
 *ARTH 222 Survey of Western Art II (3)

English

- ENGL 221 British Literature to 1798 (3)
 ENGL 241 World Literature through the Middle Ages (3)
 ENGL 243 Introduction to Classical Mythology (3)
 ENGL 341 History and Literature of the Old Testament (3)
 ENGL 342 Folklore and Literature (3)
 ENGL 343 Myth and Literature (3)

History

- *HIST 101 Introduction to Ancient Civilization (3)
 *HIST 102 History of European Civilization through the 17th Century (3)
 HIST 275 History of Ancient Israel (3)

Language

- LATN 101-102 Latin Elements I, II (3, 3)
 LATN 201-202 Latin Intermediate I, II (3, 3)

Philosophy and Religious Studies

- PHIL 221 Ancient Greek Philosophy (3)
 PHIL 355 Interpretation of the Bible: New Testament (3)

Sociology and Anthropology

- ANTH 207 Cultural Anthropology (3)
 ANTH 388 Peasant Cultures (3)

Theatre Arts

- THEA 211 History of Theater and Drama I (3)
 THEA 212 History of Theatre and Drama II (3)
 THEA 241 Costume Dress and Society: Egypt to Elizabethan (3)

Minor in Medieval and Renaissance Studies

The minor in Medieval and Renaissance Studies is designed for students whose major interest is in a single discipline (English, history, theatre) but who would also like to develop a specialization in the Medieval and Renaissance periods. The minor is also a good choice for students who are interested in the track but who are not sure they intend to pursue postgraduate work or education in this field.

The minor consists of 21 hours of course work distributed as follows:

1. Six hours divided as follows:

- ENGL 221 British Literature to 1798 (3)
 or
 ENGL 241 World Literature through the Middle Ages (3)
 HIST 241 History of European Civilization through the 17th Century (3)

2. Six hours of approved upper-division courses (i.e., those approved for the major as listed above), three hours in English and three hours in history.
3. Three hours of approved upper-division courses in art, Latin, modern languages, music, philosophy, or theatre arts.
4. Six hours of approved upper-division courses, distributed according to students' choices, with the guidance of their adviser.

PRELAW

Coordinator: Jack Fruchtman (Political Science)

OFFICE

Linthicum Hall 118B, 410-830-3350

The Program

Students contemplating law school after graduation should make an appointment with the university's Prelaw adviser, Dr. Jack Fruchtman. He can provide prospective students with a copy of the *Towson Prelaw Handbook*, introduce them to the Prelaw Society, and offer advice concerning courses of study, preparation for the Law School Admissions Test and other matters pertaining to what students need for their application to law school. In general, students should concentrate on improving their reading, writing and speaking skills.

Dual Law Program

Towson University offers to qualified students the opportunity to apply to the early admission program at the University of Baltimore School of Law. Admission is not automatic but is contingent upon acceptance by the University of Baltimore Law School (including review of LSAT scores). Transfer to the UB law program can only take place at the end of a spring semester. To qualify for entrance to the dual-degree program, students must fulfill the first three of the standards listed below; to qualify for graduation from Towson University, they must also fulfill the fourth standard listed:

1. Completion of at least 91 credits at TU with at least a 3.00 QPA.
2. Completion of all TU General Education requirements.
3. Completion of a major at TU with at least a 3.25 QPA in the major. No specific areas of study or disciplines are required for this program; accordingly, students may choose majors in which they are most interested.
4. Successful completion of 29 credits at the University of Baltimore School of Law, and of all other TU graduation requirements as listed in the catalog under the heading Degree Requirements.

Subsequent completion of all requirements at the University of Baltimore Law School is necessary in order to earn the J.D. degree from the University of Baltimore. Students interested in this program should contact the TU Prelaw adviser, Dr. Jack Fruchtman, in the Department of Political Science.

RELIGIOUS STUDIES TRACK

Coordinator: Rose Ann Christian (Philosophy and Religious Studies)

OFFICE

Linthicum Hall 219J, 410-830-2867

The Program

The Religious Studies Track is an interdisciplinary program which offers students the opportunity to study religion from a variety of perspectives. The program is administered by a faculty committee.

Requirements for the Track

As in all thematic options, 45 credits must be taken in upper-division courses. For the Religious Studies Track, 36 credits must be from the approved list of courses having substantial religious content. No more than 4 lower-division credits may be applied to

this 36-credit requirement, and no more than 21 of the 36 credits may be taken in any one department. The distribution of 18 of the 36 credits must be: 6 from the Department of History, 6 from the Department of Philosophy and Religious Studies, and 6 from other departments.

Directed readings, research methods, independent study, honors thesis or minimster courses in religious topics, when approved by the Religious Studies committee, must be undertaken within the requirements of the department that offers them and with the approval of the teaching faculty member.

The following courses are approved for credit in the Religious Studies Track. However, courses marked with an asterisk are only applicable during semesters when they have been approved for credit by the Religious Studies committee. The committee will meet prior to preregistration each semester to determine which of the courses marked with an asterisk will be applicable for credit to the Religious Studies Program for the following semester. Students may also apply to the committee for approval of transfer credits from other colleges into the Religious Studies Track within the existing university policies for transfer.

Approved Courses

*Indicates approval required each semester offered.

Art History

ARTH 303	Greek Art and Architecture (3)
ARTH 305	Roman Art and Architecture (3)
ARTH 307	Medieval Art (3)
ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 313	Baroque Art and Architecture (3)
ARTH 331	Art of China (3)
ARTH 333	Art of Japan (3)
ARTH 485	Seminar in Art History (3)

English

ENGL 243	Introduction to Classical Mythology (3)
ENGL 270	*Ideas in Literature (3)
ENGL 341	History and Literature of the Old Testament (3)
ENGL 343	*Myth and Literature (3)
ENGL 471	*Topics in World Literature (3)
ENGL 472	*Topics in British Literature (3)
ENGL 473	*Topics in American Literature (3)
ENGL 485	*Seminar in Literary Studies I (3)
ENGL 486	*Seminar in Literary Studies II (3)
ENGL 490	*Directed Studies in English (2-4)
ENGL 494	*Travel and Study (3-6)

History

HIST 277	A Survey of Jewish History (3)
HIST 303	Hellenistic Civilization (3)
HIST 401	The Early Middle Ages, 300-1050 (3)
HIST 402	The High Middle Ages, 1050-1350 (3)
HIST 483	*Biographical Studies in History (3)
HIST 484	*Historical Themes (3)
HIST 486	History Seminar (3)
HIST 494	*Travel and Study (3-6)
HIST 496	*Colloquium (3)
HIST 497	*Directed Reading (2-4)

Philosophy and Religious Studies

PHIL 301	Philosophies of India (3)
PHIL 302	Philosophies of China and Japan (3)
PHIL 322	Hellenistic and Medieval Philosophy (3)
PHIL 341	*Ethics (3)
PHIL 253	*Contemporary Ethical Problems (3)
PHIL 353	Philosophy of Religion (3)
PHIL 355	Interpretation of the Bible: New Testament (3)
PHIL 357	Topics in Comparative Religion (3)
PHIL 470-479	*Topics in Philosophical Problems (3)
PHIL 495	*Research Tutorial in Philosophy (3)

Psychology

PSYC 381	*Readings in Psychology (1-2)
PSYC 491	*Independent Investigation in Psychology (3)
PSYC 499	*Senior Thesis in Psychology (4)

Sociology and Anthropology

SOCI 470-479	*Special Topics in Sociology (3)
SOCI 485	Seminar in Sociology (3)
SOCI 495	*Independent Research (3)
ANTH 364	Religion, Magic and Witchcraft (3)
ANTH 470-479	Special Topics in Anthropology (3)
ANTH 495	*Independent Research (3)

International Studies Program

Co-Directors: Joseph Rudolph, Daniel Whiteneck
(Political Science)

Affiliated Faculty: Edwin Hirschmann (Asian Studies), Kangoh Lee, (Economics), Barbara Leons (Latin American Studies), George McCool (Modern Languages), Wayne McKim (Geography), Michael O'Pecko (European Studies), Ronn Pineo (History), Doug Ross (Management), Fran Rothstein (Anthropology)

Ex-Officio: Dean Esslinger (Academic Affairs), Glenda Henkel (Career Center)

OFFICE

Linthicum Hall 118, 410-830-2958, 410-830-2955

Fax: 410-830-2960

E-mail: inst@towson.edu

THE PROGRAM

The International Studies program provides a rigorous interdisciplinary curriculum in international affairs that is designed to appeal to students interested in addressing international problems and issues through careers in public service, education, business, and nonprofit enterprises. The program also provides excellent preparation for students wishing to pursue graduate education in international studies, law, or international business. The program aims to achieve a global perspective through an interdisciplinary network of courses and experience that will lead to a Bachelor of Arts degree in International Studies. The program is administered by a committee of faculty members from the various departments and colleges from which the courses are taken.

BACHELOR OF ARTS IN INTERNATIONAL STUDIES

All students must complete 48 credits (16 courses) in International Studies to complete the major. Students must complete the core curriculum described below (27 credits) and one of four tracks of courses (21 credits). The four tracks are the General Track, Asia Track, Europe Track, and Latin America Track. The purpose of the tracks is to provide students an opportunity to apply what they learned in the core curriculum to an issue or region of their choice. All 16 courses must be completed with a grade of 2.00 or higher. It is recommended that students complete the foundation courses in the core curriculum before proceeding to the rest of the curriculum.

FOREIGN LANGUAGE REQUIREMENTS

Students must achieve a level of proficiency equivalent to four semesters of college-level language training in a modern foreign language that is offered by or can be tested by the Department of Modern Languages. The language selected may depend upon the International Studies track the student chooses. For example, students in the Latin America Track must achieve proficiency in Spanish. Students can fulfill the language requirement for the International Studies major through any of the procedures outlined in the Meeting B.A. Requirements section of the Department of Modern Languages entry in the *Undergraduate Catalog*. Lower-division courses taken in a modern language do not count toward the 48 credits needed to complete the International Studies major.

INTERNATIONAL STUDIES CORE COURSES

The courses meet General Education requirements as noted.

Foundation Courses (15 credits)

All of the following:

- ANTH 207 Cultural Anthropology (3) (GenEd. II.D.)
- ECON 202 Macroeconomic Principles (3) (GenEd II.C.2)
- GEOG 105 Geography of International Affairs (3) (GenEd II.D)
- HIST 151 The World Since 1945 (3)(GenEd II.D)
- POSC 107 Introduction to International Relations (3) (GenEd II.D.)

Economics and Management (3 credits)

One of the following:

- ECON 305 Survey of International Economics (3)
- ECON 323 Comparative Economic Systems (3)(GenEd I.D.)
- ECON 325 Economic Development (3)(GenEd I.D.)
- ECON 421 International Economics (3)
- MNGT 355 International Business (3)

Geography and History (3 credits)

One of the following:

- GEOG 381 Political Geography (3)
- GEOG 427 The Global Economy (3)
- HIST 150 Europe and the Non-European World (3) (GenEd II.D.2)
- HIST 103 European Civilization since the 17th Century (3) (GenEd II.C.1)
- HIST 324 Democratization in Latin America (3)
- HIST 370 Diplomatic History of the United States since 1900 (3)

Political Science (3 credits)

One of the following:

- POSC 303 Theory of International Relations (3)
- POSC 337 Comparative Governments of Foreign Powers (3)
- POSC 339 Comparative Political Systems (3)
- POSC 428 Political Theory II (3)

Research and Practicum (3 credits)

One of the following:

Any 3-credit course in an approved study abroad program

or

- ANTH 491 Internship in Anthropology* (3)
- ANTH 37x Ethnographic Field Methods (3)
- ECON 205 Statistics for Business and Economics (3)
- ECON 497 Internship in Economics* (1-3)
- FREN 497 Internship in French* (3)
- GEOG 491 Internship in Geography* (1-6)
- GERM 497 Internship in German* (3)
- HIST 300 Introduction to Historical Study (3) (GenEd I.D.)
- HIST 493 Internship in History* (3-6)
- IDIS 495 Internship in International Studies* (3)
- LAST 493 Internship in Latin American Studies* (3)
- POSC 461 Research Methods in Political Behavior (3)
- POSC 493 Internship in Political Science* (3-9)
- SPAN 497 Internship in Spanish* (3)

or

An Honors Thesis if the topic is approved by the director of International Studies

* Internships must be taken for 3 credits and must be in work related to International Studies and must be approved by the student's academic adviser or the director of International Studies.

INTERNATIONAL STUDIES TRACKS (21 credits)

The tracks are intended to provide students with flexibility in designing a curriculum in international studies that addresses their interests while maintaining academic rigor and focus. Students must complete the course requirements listed for one of the following tracks.

GENERAL TRACK (21 upper-division credits)

The General Track is intended to give students a flexible approach to developing their skills and knowledge in International Studies. Students may choose to focus their courses on a particular disci-

pline (such as economics or geography), or to focus their courses on a particular topic (such as international development), or to select a broad range of courses that provides them with a general understanding of international affairs. The student's academic adviser must approve the entire track.

To complete the General Track, students must take at least 21 credits (seven courses) from the courses listed below. Courses must be taken in at least three different departments. No more than two lower-division courses (6 credits) may be counted toward the General Track. Other courses, not listed below, that are relevant to International Studies (such as Special Topics courses or Directed Readings courses) may be accepted with the approval of the student's academic adviser. Courses cannot be counted in both the International Studies Core and the General Track.

Students must complete through the 202 level or equivalent in a foreign language that is offered by or can be tested by the Department of Modern Languages. Language credits through the 202 level do not count toward the 21 credits needed for the track or the 48 credits needed for the International Studies major.

Approved Courses for the General Track in International Studies

Anthropology

- ANTH 321 Gender in Cross-Cultural Perspective (3)
 ANTH 346 Wealth, Power and Politics in Cross-Cultural Perspective (3)
 ANTH 351 Drugs in the Americas (3)
 ANTH 353 Latinas in the Americas (3)
 ANTH 367 Peoples of the Middle East (3)
 ANTH 368 Development and Industrialization of Cross-Cultural Perspective (3)
 ANTH 369 Tradition and Revolution in Latin America (3)
 ANTH 388 Peasant Cultures (3)
 ANTH 47x Special Topics in Anthropology * (1-3)

Art History

- ARTH 331 The Art of China (3)
 ARTH 333 The Art of Japan (3)

Chinese

- CHNS 301 Chinese Composition and Conversation I (3)

Economics

- ECON 305 Survey of International Economics (3)
 ECON 321 History of Economic Thought (3)
 ECON 323 Comparative Economic Systems (3)
 ECON 325 Economic Development (3)
 ECON 421 International Economics (3)
 ECON 423 International Monetary Theory and Policy (3)
 ECON 47x Topics in Economics * (3)

English

- ENGL 345 Perspectives in World Drama (3)
 ENGL 347 World Literature Written in English (3)
 ENGL 439 Modern World Poetry (3)
 ENGL 441 Modern Fiction to World War II (3)
 ENGL 442 Modern Fiction since World War II (3)
 ENGL 471 Topics in World Literature * (3)

Finance

- FIN 435 International Finance (3)

French

- FREN 301 French Composition and Conversation I (3)
 FREN 311 French Culture and Civilization I (3)
 FREN 312 French Culture and Civilization II (3)
 FREN 321 Survey of French Literature I (3)
 FREN 322 Survey of French Literature II (3)
 FREN 331 French for Business (3)
 FREN 441 French Literature of the 20th Century (3)

Geography

- GEOG 381 Political Geography (3)
 GEOG 385 Population Geography (3)

- GEOG 427 The Global Economy (3)
 GEOG 431 Geography of Africa (3)
 GEOG 443 Geography of East Asia (3)
 GEOG 445 Geography of South and Southeast Asia (3)
 GEOG 447 Geography of the Middle East (3)
 GEOG 448 Conflict in Ireland (3)
 GEOG 451 Geography of Europe (3)
 GEOG 453 Geography of the Former USSR (3)
 GEOG 461 Geography of Latin America (3)

German

- GERM 301 German Composition and Conversation I (3)
 GERM 311 Culture and Civilization (3)
 GERM 321 Survey of German Literature (3)
 GERM 331 German for Business (3)
 GERM 441 Modern German Literature (3)
 GERM 442 German Literature Since 1945 (3)

History

- HIST 307 The Andean Republics (3)
 HIST 312 History of Modern India (3)
 HIST 313 History of Modern Southeast Asia (3)
 HIST 315 Imperial China: The Last Dynasty (3)
 HIST 316 Revolutionary China (3)
 HIST 318 History of Modern Korea (3)
 HIST 319 Japan, 1830 to 1930 (3)
 HIST 320 Japan, 1930 to Present (3)
 HIST 322 History of Mexico: National Period (3)
 HIST 324 Democratization in Latin America (3)
 HIST 328 History of East Africa from 1820 to Present (3)
 HIST 329 History of South Africa (3)
 HIST 331 American Military History 1898-1945 (3)
 HIST 332 American Military History since 1945 (3)
 HIST 370 Diplomatic History of the U.S. since 1900 (3)
 HIST 384 Life Histories of African Women (3)
 HIST 391 History of Canada (3)
 HIST 406 Europe: 1815-1914 (3)
 HIST 415 Diplomatic History of Europe: 1815-1939 (3)
 HIST 421 Britain in the 20th Century (3)
 HIST 441 Germany: 1871-1945 (3)
 HIST 452 Russia/Soviet Union: 1894-1953 (3)
 HIST 477 Europe in the Third World (3)
 HIST 478 History of Terrorism since Mid-19th Century (3)
 HIST 479 A History of Diplomacy (3)

Italian

- ITAL 301 Italian Composition and Conversation I (3)

Japanese

- JPNS 301 Japanese Composition and Conversation I (3)

Management

- MNGT 355 International Business (3)
 MNGT 438 Multinational Management and Strategies (3)

Marketing

- MKTG 445 International Marketing (3)

Philosophy and Religion

- PHIL 301 Philosophies of India (3)
 PHIL 302 Philosophies of China and Japan (3)
 PHIL 327 African Philosophy (3)
 PHIL 357 Topics in Comparative Religion (3)

Political Science

- POSC 303 Theory of International Politics (3)
 POSC 307 Contemporary International Politics (3)
 POSC 337 Comparative Government of Foreign Powers (3)
 POSC 339 Comparative Political Systems (3)
 POSC 340 Comparative Public Policy (3)
 POSC 341 African Government and Politics (3)
 POSC 351 The Government and Politics of Latin America (3)
 POSC 355 The Latin American Policy of the U.S. (3)
 POSC 385 Model Organization of American States (3)
 POSC 428 Political Theory II (3)

POSC 432	United States - Russian Relations (3)
POSC 435	Africa in World Politics (3)
POSC 437	Castro and the Cuban Revolution (3)
POSC 441	Contemporary U.S. - European Relations (3)
POSC 455	International Law and Organization I (3)
POSC 456	International Law and Organization II (3)
POSC 457	Use of Force in International Law (3)
POSC 47x	Special Topics in Political Science * (3)
POSC 482	Seminar in Political Science * (3)
POSC 491	Seminar in U.S. Foreign Policy (3)

Sociology

SOCI 329	Demography (3)
SOCI 333	Political Sociology (3)

Spanish

SPAN 301	Spanish Composition and Conversation I (3)
SPAN 311	Culture and Civilization of Spanish-Speaking Peoples I (3)
SPAN 312	Culture and Civilization of Spanish-Speaking Peoples II (3)
SPAN 321	Survey of Spanish Literature I (3)
SPAN 322	Survey of Spanish Literature II (3)
SPAN 331	Spanish for Business (3)
SPAN 439	Literary Movements in Spanish-American Literature (3)
SPAN 444	20th Century Spanish-American Literature II (3)

* Special topics, seminars, and independent study and readings courses must be related to international topics to count toward the General Track in International Studies.

ASIA TRACK (21 upper-division credits)

The Asia Track is designed to offer students an interdisciplinary program of study in various dimensions of the Asian world. Students may plan a course of study that concentrates on a particular aspect of Asian civilization or on a particular sub-region of Asia. One might, for example, focus on the art and philosophy of various Asian peoples or, instead, concentrate on Chinese, Indian, or Japanese civilizations, studying both the traditional and modern society, its physical setting, its political and economic development, etc. Students interested in Asia should also see the Asian Studies Track offered under the Interdisciplinary Studies major. However, students may not pursue both the Asia Track in International Studies and the Asian Studies minor offered under the Interdisciplinary Studies Program.

To complete the Asia Track, students must take a total of 21 credits (seven courses) from the courses in the categories listed below. Courses must be taken in at least three different departments. No more than two lower-division courses (6 credits) may be counted toward the Asia Track. Other courses, not listed below, that are relevant to Asia (such as Special Topics courses or Directed Readings) may be accepted with the approval of the student's academic adviser. Courses may not be counted in both the Asia Track and the International Studies Core.

Students must complete through the 202 level or equivalent in Chinese, Japanese, or another language that can be tested by the Department of Modern Languages if it is appropriate to the student's interests in Asia. Language credits through the 202 level do not count toward the 21 credits needed for the track or the 48 credits needed for the International Studies major.

Approved Courses for the Asia Track in International Studies

Anthropology

ANTH 367	Peoples of the Middle East (3)
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Art History

ARTH 331	The Art of China (3)
ARTH 333	The Art of Japan (3)

Geography

GEOG 443	Geography of East Asia (3)
GEOG 445	Geography of South and Southeast Asia (3)
GEOG 447	Geography of the Middle East (3)

History

HIST 107	Introduction to the History of Islamic Civilization (3)
HIST 109	Introduction to the Civilization of India (3)
HIST 311	Traditional India: Its Historical Development (3)
HIST 312	History of Modern India (3)
HIST 313	History of Modern Southeast Asia (3)
HIST 315	Imperial China: The Last Dynasty (3)
HIST 316	Revolutionary China (3)
HIST 318	Modern Korea (3)
HIST 319	Japan, 1830 to 1930 (3)
HIST 320	Japan, 1930 to Present (3)

Languages

CHNS 301	Chinese Composition and Conversation I (3)
CHNS 492	Directed Readings in Chinese (3)
JPNS 301	Japanese Composition and Conversation I (3)
JPNS 492	Directed Readings in Japanese (3)

Philosophy and Religion

PHIL 205	Women in World Religions (3)
PHIL 219	Introduction to Asian Philosophy (3)
PHIL 301	Philosophies of India (3)
PHIL 302	Philosophies of China and Japan (3)
PHIL 357	Topics in Comparative Religion (3)

Political Science

POSC 470	Vietnam (3)
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EUROPE TRACK (21 upper-division credits)

The Europe Track permits students to apply what they have learned in the international studies curriculum to European issues and problems. Students may choose courses that focus their studies on a specific issue, such as European integration, or they can choose courses that permit them to gain a broader perspective on European politics, economics, and cultures. The entire track must be approved by either the student's academic adviser or the director of the International Studies Program.

To complete the Europe Track, students must take a total of 21 credits (seven courses) from the courses listed in the categories below. No more than two lower-division courses (6 credits) may be counted toward the Europe Track. Other courses, not listed below, that are relevant to Europe (such as Special Topics courses or Directed Readings) may be accepted with the approval of the student's academic adviser. Courses may not be counted in both the Europe Track and the International Studies Core. Students may not pursue both the Europe track in International Studies and a European Studies Minor.

Students must complete through the 202 level or equivalent in any modern foreign language that is offered by or can be tested by the Department of Modern Languages. Language credits through 202 do not count toward the 48 credits needed for the International Studies major.

Approved Courses in the Europe Track in International Studies

Fine Arts and English

One of the following:

ARTH 309	Italian Renaissance Art and Architecture (3)
ARTH 311	Northern Renaissance Art and Architecture (3)
ENGL 325	18th Century British Literature (3)
ENGL 326	Literature of the British Romantic Period (3)
ENGL 327	The Victorian Age (3)
ENGL 420	The Development of the British Novel 18th Century (3)
ENGL 421	The Development of the British Novel 19th Century (3)
ENGL 422	Development of the British Novel 20th Century (3)
ENGL 423	Modern British Poetry (3)
MUSC 302	History of Music II (3)
MUSC 402	Music of the Baroque Period (3)

- MUSC 403 Music of the Classical Period (3)
 MUSC 404 Music of the Romantic Period (3)
 MUSC 411 Survey of Opera (3)

Modern Languages

One of the following:

- FREN 301 French Composition and Conversation I (3)
 FREN 311 French Culture and Civilization I (3)
 FREN 312 French Culture and Civilization II (3)
 FREN 321 Survey of French Literature I (3)
 FREN 322 Survey of French Literature II (3)
 GERM 301 German Composition and Conversation I (3)
 GERM 311 German Culture and Civilization (3)
 GERM 321 Survey of German Literature (3)
 GERM 341 Readings in Contemporary German (3)
 ITAL 301 Italian Composition and Conversation I (3)
 ITAL 321 Survey of Italian Literature I (3)
 ITAL 322 Survey of Italian Literature II (3)
 SPAN 301 Spanish Composition and Conversation I (3)
 SPAN 311 Spanish Culture and Civilization I (3)
 SPAN 321 Survey of Spanish Literature I (3)

Social Sciences and Humanities

One of the following:

- GEOG 451 Geography of Europe (3)
 GEOG 453 Geography of the Former Soviet Union (3)
 HIST 150 Europe and the Non-European World (3)
 HIST 241 History of European Civilization through the 17th Century (3)
 HIST 242 History of European Civilization from the 17th Century (3)
 HIST 406 Europe: 1815-1914 (3)
 HIST 415 Diplomatic History of Europe: 1815-1939 (3)
 HIST 416 British History: 1760-1902 (3)
 HIST 420 European Ideas: French Revolution to the Present (3)
 HIST 427 European Military History: 1871-1925 (3)
 HIST 429 European Military History: 1925-1945 (3)
 HIST 431 France: 1763-1871 (3)
 HIST 441 Germany: 1871-1945 (3)
 HIST 477 Europe in the Third World: The Age of High Imperialism (3)
 PHIL 322 Hellenistic and Medieval Philosophy (3)
 POSC 337 Comparative Governments of Foreign Powers (3)
 POSC 432 United States - Russian Relations (3)
 POSC 441 Contemporary U.S. - Western European Relations (3)

LATIN AMERICA TRACK (21 upper-division credits)

The Latin America Track permits International Studies majors to apply what they learn about international affairs to the problems and cultures in Central America, South America and the Caribbean. Students can choose courses to focus their studies on specific countries or issues or they can choose courses that provide a broad overview of international affairs in the region. The entire track must be approved by either the student's academic adviser or the director of the International Studies Program. Students interested in Latin America should also see the Latin American Studies Track offered under the Interdisciplinary Studies major. However, students may not pursue both the Latin America Track in International Studies and a Latin American Studies minor offered under the Interdisciplinary Studies Program.

To complete the Latin America Track in International Studies, students must take a total of 21 credits (seven courses) from the courses listed in the categories below. No more than two lower-division courses (6 credits) may be counted toward the Latin American Track. Other courses, not listed below, that are relevant to Latin America (such as Special Topics courses or Directed Readings) may be accepted with the approval of the student's academic adviser. Courses may not be counted in both the Latin America Track and the International Studies Core.

Students must complete through Spanish 202 or equivalent. Language credits through 202 do not count toward the 48 credits needed for the International Studies major or the 21 credits needed to complete the Latin America Track.

Approved Courses for the Latin America Track in International Studies

Introductory Latin American Course

Both of the following:

- LAST 100 Latin America: Issues and Approaches* (3)
 (Gen.Ed. I.B)
 HIST 122 Latin America: National Period (3)

*LAST 100 may be waived by the director of International Studies if the student has already completed his or her GenEd I.B requirement at the time the student enters the International Studies Program.

Advanced Latin American Courses

One of the following:

- ANTH 369 Tradition and Revolution in Latin America (3)
 GEOG 461 Geography of Latin America (3)
 POSC 351 Government and Politics of Latin America (3)
 SPAN 312 Culture and Civilization of the Spanish-Speaking Peoples II (3)

Latin American Electives

Students must take at least 12 credits (four courses) selected from the following list of courses. Courses must be taken in at least three different departments.

- ANTH 353 Latinas in the Americas (3)
 ANTH 366 South American Indians (3)
 ANTH 369 Tradition and Revolution in Latin American Society (3)
 ANTH 370 Topics in Anthropology * (3)
 GEOG 461 Geography of Latin America (3)
 GEOG 495 Directed Readings in Geography * (3)
 HIST 121 Latin America: Colonial Period (3)
 HIST 122 Latin America: National Period (3)
 HIST 307 The Andean Republics (3)
 HIST 321 History of Mexico: Colonial Period (3)
 HIST 322 History of Mexico: National Period (3)
 HIST 324 Democratization in Latin America (3)
 POSC 351 Government and Politics of Latin America (3)
 POSC 355 Latin American Policy of the United States (3)
 POSC 385 Model Organization of American States (3)
 POSC 470 Special Topics in Political Science * (3)
 POSC 482 Seminar in Political Science * (3)
 SPAN 301 Spanish Composition and Conversation I (3)
 SPAN 312 Culture and Civilization of Spanish-Speaking People II (3)
 SPAN 439 Literary Movements in Spanish-American Literature (3)
 SPAN 444 20th Century Spanish-American Literature (3)
 SPAN 470 Special Topics in Spanish* (3)
 SPAN 492 Directed Readings in Spanish* (1-3)

* Special topics, seminar, independent study, and readings courses must be related to Latin American topics to count toward the Latin America Track in International Studies.

TRANSFER CREDIT POLICY

Transfer students must take a minimum of 18 credits of upper-division courses in International Studies at Towson to fulfill the requirements for the major.

INTERNATIONAL STUDIES MINORS

In addition to the Bachelor of Arts major, the International Studies Program offers two minors for students majoring in other areas. The International Studies minor is not open to International Studies majors. The European Studies minor is not open to students who elect to pursue the Europe Track in the International Studies major.

INTERNATIONAL STUDIES MINOR (21 credits)

1. *Two of the following:*

- ANTH 207 Cultural Anthropology (3) (GenEd. II.D.)
 ECON 202 Macroeconomic Principles (3) (GenEd II.C.2)
 GEOG 105 Geography of International Affairs (3) (GenEd II.D)
 HIST 151 The World since 1945 (3)(GenEd II.D)
 POSC 107 Introduction to International Relations (3) (GenEd II.D.)

2. All students in the International Studies minor must complete 15 credits (five courses) from the list of approved courses for the General Track of the International Studies major.

3. Language Requirement: Students in the International Studies minor must attain an intermediate level of proficiency (through 202) or equivalent in any modern foreign language that is offered by or can be tested by the Department of Modern Languages. Language credits through 202 do not count toward the 21 credits needed for the minor.

EUROPEAN STUDIES MINOR (21 credits)

1. Two of the following:

HIST 150 Europe and the Non-European World

HIST 102 History of European Civilization through the 17th Century

HIST 103 History of European Civilization since the 17th Century

2. All students in the European Studies minor must complete 15 credits (five courses) from the list of approved courses for the Europe Track of the International Studies major.

3. Language Requirement: Students in the European Studies minor must attain an intermediate level of proficiency (through 202) or equivalent in any one of the following modern languages: French, German, Italian, Russian or Spanish.

Students can fulfill the language requirement for the European Studies Minor through any of the procedures outlined in the Meeting B.A. Requirements section of the Department of Modern Languages entry in the *Undergraduate Catalog*. Language credits through 202 do not count toward the 21 credits needed for the minor.

THE INTERNATIONAL CREDENTIAL

The International Credential provides students in any major with a structured curriculum to certify that they have integrated international study and experience with their major. Recognizing the global nature of work, study, and practice enhances learning in nearly all majors. The Credential acknowledges those students who have actively and rigorously sought international experience related to their course of study. Evidence of the completion of the Credential will appear on the student's transcripts. To earn the International Credential, students must complete an approved study abroad program, international experiential learning program, or international internship program and complete the following courses with a grade equivalent of 2.00 or higher.

COMM 379 Intercultural Communications (3)

INST 494 International Studies Abroad (3)

INST 496 International Research (3)

Applications for the International Credential are available from the director of International Studies in Linthicum Hall, room 118L.

INTERNATIONAL STUDIES ACTIVITIES AND PROGRAMS

The International Studies Program offers students the opportunity to participate in the following special programs and activities:

- internships for academic credit in metropolitan Baltimore and Washington, D.C.
- participation in the Model Organization of American States
- annual foreign affairs conferences held at the U.S. Naval Academy, U.S. Air Force Academy, and U.S. Military Academy at West Point
- editing and managing the *Towson Journal of International Affairs* for academic credit
- travel study and opportunities to over 15 universities around the world
- the annual Earle T. Hawkins Symposium on International Affairs



Law and American Civilization Program

Director: Jack Fruchtmann

Affiliated Faculty: Eric Belgrad (*Political Science*), Cynthia Cates (*Political Science*), Rose Ann Christian (*Philosophy and Religious Studies*), Don-John Dugas (*English*), Edwin Duncan (*English*), Laura Eldridge (*History*), Jack Fruchtmann (*Political Science*), H. George Hahn (*English*), Carolyn Hill (*English*), William Horne (*Electronic Media and Film*), John Isaacs (*Political Science*), Martha Kumar (*Political Science*), Michael Korzi (*Political Science*), Ronald Matlon (*Mass Communication and Communication Studies*), John Murungi (*Philosophy and Religious Studies*), Benjamin Neil (*Accounting*), Florence Newman (*English*), Jo-Ann Pilardi (*Women's Studies*), Roderick Ryon (*History*), Stephen Scales (*Philosophy and Religious Studies*), Myron Scholnick (*History*), W. Michael Seganish (*Accounting*), Richard Vatz (*Mass Communication and Communication Studies*), Mark Whitman (*History*)

OFFICE

Linthicum Hall 118B, 410-830-3350

THE PROGRAM

The Law and American Civilization Program introduces undergraduates to the American legal system. Students will learn the methodology and gain the knowledge necessary to participate as active citizens in a nation devoted to the rule of law and will receive intensive training in analytical reasoning and critical thinking. Students majoring in Law and American Civilization may wish to attend law school following college graduation; they may choose to apply to graduate school in one of the disciplines of the program; they may enter the workforce in government, business and industry, or politics; or they may wish to enter the profession of trial consultation. This course of study is not necessarily a pre-professional program. Students not contemplating law or graduate school are encouraged to major in the program if their primary academic interest in college is to learn more about the American legal system.

MAJOR IN LAW AND AMERICAN CIVILIZATION

Majors must complete 54 credits. The program is divided into four parts, and writing skills are emphasized throughout. First, students must complete two introductory courses, one each in Political Science and Philosophy, which acquaint students with the nature of law and its role in American society. Second, students will take four core courses, one at the lower-division, two at the upper-division level, and an advanced writing course. These courses further situate students in American culture, politics, judicial policymaking and logical thinking. Third, students will have several options in choosing electives, which will be offered by several departments: Accounting, Mass Communication and Communication Studies, English, History, Philosophy and Religious Studies, and Political Science. Fourth and finally, students will undertake a 6-credit capstone experience of their choice and, if possible, design. Advanced students may wish to undertake a project in the workplace and then write an analytical essay on that experience as it fits into the overall program. Other students will participate in a senior seminar, in which they will write a research paper on some aspect of the law, to be developed into a thesis supervised by the program director. Finally, qualified students may choose to write an honors thesis.

I. Introductory Courses (6 credits)

- PHIL 204 Race, Class and Gender (3)
- POSC 209 Introduction to Law (3)

II. Core Courses (12 credits)

- ENGL 310 Writing Argument (3)
- COMM 331 Advocacy and Argument (3)
- PHIL 111 Logic (3)
- POSC 478 The Judicial Process (3)

III. Electives (30 credits)

Two courses in each of the following lettered topics. (Students may take no more than five law-related courses, so designated by an asterisk.) Students will need to fulfill each department's individual prerequisites in advance of taking these courses.

A. Accounting

- LEGL 225* Legal Environment of Business (3)
- LEGL 226* Business Law (3)

or

Communication Studies

- COMM 304 Persuasion (3)
- COMM 420* Communication in the Legal Process (3)

or

Mass Communication

- MCOM 350* Media Law (3)

B. English

Strongly recommended are ENGL 221 and ENGL 222.

- ENGL 361 Literary Research and Applied Criticism (3)
- ENGL 425 Chaucer (3)
- ENGL 427 Shakespearean Comedy (3)
- ENGL 428 Shakespearean Tragedy (3)
- ENGL 429 Milton and the Humanist Tradition (3)
- ENGL 433 The American Short Story (3)
- ENGL 435 The Development of the American Novel: 19th Century (3)
- ENGL 436 The Development of the American Novel: 20th Century (3)
- ENGL 461 History of Literary Criticism (3)
- ENGL 476 Topics in Multi-Ethnic Literature (3)
- ENGL 477 Topics in Black American Literature (3)

C. History

- HIST 331 American History 1898-1945 (3)
- HIST 345 The American Colonies (3)
- HIST 346 The American Revolutionary Period (3)
- HIST 347 The Early National Period (3)
- HIST 348 The Jacksonian Era (3)
- HIST 349 The Civil War (3)
- HIST 350 The Era of Reconstruction (3)
- HIST 351 The U.S. 1865-1901: Age of Enterprise (3)
- HIST 352 The U.S. 1892-1920: Age of Reform (3)
- HIST 359 The F.D.R. Era (3)
- HIST 360 Recent American History (3)
- HIST 367* The Development of the U.S. Constitution: 1787-1941 (3)
- HIST 368* The Bill of Rights and the Constitution, 1941 to the Present (3)
- HIST 370 American Diplomatic History (3)
- HIST 385 American Labor History (3)

D. Philosophy

- PHIL 311 Symbolic Logic (3)
- PHIL 319 Science, Technology and Values (3)
- PHIL 321* Philosophy of Law (3)
- PHIL 324 Modern Philosophy (3)
- PHIL 326 American Philosophy (3)
- PHIL 331 Concepts of Woman: An Historical Approach (3)
- PHIL 332 Feminist Philosophy (3)
- PHIL 341 Ethics (3)
- PHIL 353 Philosophy of Religion (3)
- PHIL 361 Ethics of Medicine (3)
- PHIL 380 Ecophilosophy (3)

E. Political Science

POSC 305	Urban Government and Politics (3)
POSC 375	Public Administration (3)
POSC 381	The Presidency (3)
POSC 383	Congress (3)
POSC 417	Political Parties (3)
POSC 418*	Constitutional Law I (3)
POSC 419*	Constitutional Law II (3)
POSC 425*	Legal Theory (3)
POSC 427	Political Theory I (3)
POSC 428	Political Theory II (3)
POSC 450	Group Politics and Public Opinion (3)
POSC 467	Politics and the Budgetary Process (3)
POSC 472	American Political Thought (3)
POSC 478*	Courts and Public Policy (3)
POSC 478*	Law on Line (3)
POSC 478	Judicial Process (3)
POSC 479*	Women and the Law (3)

IV. Seminar and/or Capstone Experience (6 credits)

Students have four options to fulfill this stage of the Law and American Civilization Program. In all cases, students must research and write a major essay under the direction of a professor from one of the participating departments with the approval of the director of the Law and American Civilization Program.

Option 1

POSC 486	Seminar: Law and Justice (3)
LWAC 491	Thesis in Law and American Civilization (3)

Option 2

POSC 482	Seminar: Law and Society (3)
LWAC 491	Thesis in Law and American Civilization (3)

Option 3

LWAC 497	Practicum in Law and American Civilization (3)
LWAC 491	Thesis in Law and American Civilization (3)

Option 4

LWAC 498	Honors Thesis I: Directed Readings in Law and American Civilization (3)
LWAC 499	Honors Thesis II: Thesis in Law and American Civilization (3)

Metropolitan Studies Program

Affiliated Faculty: Kent Barnes (*Geography and Environmental Planning*), Cynthia Cates (*Political Science*), Kenneth Haddock (*Geography and Environmental Planning*), Marion Hughes (*Sociology, Anthropology and Criminal Justice*), Toni Marzotto (*Political Science*), Alan Melchior (*Political Science*), John Morgan II (*Geography and Environmental Planning*), Dennis Muniak (*Political Science*), Ronn Pineo (*History*), Timothy Sullivan (*Economics*), Virginia Thompson (*Geography and Environmental Planning*)

OFFICE

Linthicum Hall 118F, 410-830-4490

Program Director: Dennis Muniak

THE PROGRAM

The Metropolitan Studies program is designed as a liberal arts program that offers students the opportunity to explore the complexity of metropolitan regions in the United States as well as overseas. Classes place an emphasis on contemporary issues and problems and on innovative policy solutions. Students are prepared for a number of interesting careers in the public and private sectors in planning policy and community development.

MAJOR IN METROPOLITAN STUDIES

Students in the Metropolitan Studies major are required to complete 39 credits with a grade equivalent of 2.00 or higher. Of the total credits in program requirements, a minimum of 9 may also be used to fulfill General Education requirements.

Note: Courses designated with "xx" did not have numbers assigned in time for publication. Please see the program director for information.

Core Courses (9 credits)

METRO 1xx	Introduction to Metropolitan Studies
GEOG 101	Physical Geography
POSC 207	State and Local Government

Required Courses (27 credits)

Majors must take two courses in each of the categories lettered A, B and F; and one course each in C, D and E.

A. GEOG 391 Introduction to Metropolitan Systems

And one of the following:

GEOG 355	Historical Geography of Urbanization
GEOG 363	Spatial Organization of Economic Activity
GEOG 393	Transportation and Infrastructure
GEOG 409	Comprehensive Planning
GEOG 484	Land Use Planning

B. POSC 3xx Politics of Metropolitan Growth and Change

And one of the following:

POSC 4xx	Comparative Metropolitan Governance in Industrial Democracies
POSC 4xx	Metropolitan Administration
POSC 305	Urban Government and Politics
POSC 4xx	Problems and Issues in the Metropolitan State
POSC 421	Politics and Environmental Policy

C. Select One:

HIST 3xx	History of Metropolitan Baltimore and Washington
HIST 3xx	Metropolitan History in World Perspective
HIST 375	The City in American History

D. Select One:

ECON 351	Economics of the Metropolitan Area
ECON 485	Seminar in Economic Issues

- E. Select One:
- | | |
|----------|------------------------|
| SOCI 339 | Community Organization |
| SOCI 329 | Demography |
| SOCI 327 | Urban Sociology |

- F. Select Two:
1. METRO 4xx Metropolitan Studies Internship (open to juniors and seniors with a GPA of 3.00 and above)
 2. METRO 4xx Honors Seminar: Metropolitan Leadership
 3. any course listed in A-E that coincides with the student's individual interests in Metropolitan Studies
 4. an upper-level course that the student's adviser must approve as relevant to Metropolitan Studies (including approved study abroad)

Capstone Experience (3 credits)

METRO 4xx Capstone Seminar in Metropolitan Studies



Department of Modern Languages

Professors: Jorge Giro, Michael O'Pecko, Roger Poirier

Associate Professors: Thomas Evans, Beverly Leetch, George McCool, John McLucas, Salvatore Zumbo (*Chair*)

Assistant Professors: Colleen Ebacher, Lea Ramsdell, Katia Sainson

Lecturer: Enrique Venegas

Part-time Faculty: Daniel Ablin, Rossana Barbera, Vivian Braun, Nelida Galla, Rebecca Hsieh, Teresa Huidobro, Olesia Letts, Helmut Licht, James Medvitz, Carmela Mirabile, Junko Morishita, James M. Pickett, Rosemary Smart, Teresa Spriggs, Sophia Swope, Kanji Takeno, Eston Teter, Helen Wilson

OFFICE

Linthicum Hall 319 F/G, 410-830-2883

Fax 410-830-4250

PROGRAMS OF THE DEPARTMENT

The Department of Modern Languages offers the following programs: 1) the major in French, German and Spanish; 2) the major in French, German and Spanish Secondary Education; 3) the major in French, German and Spanish Literature/Professional Program; 4) the minor in French, German, Italian and Spanish; 5) the proficiency in French, German and Spanish, for non-language majors or minors planning for careers which require reasonable oral and written competency in a foreign language; and 6) language elective, for all students who wish to acquire a reading or conversational ability in one of the following languages: Russian, Chinese, Portuguese, Hebrew, Japanese, Greek, Latin or Hindi. Expansion of these non-major languages will be made in response to expressed student interest. Students majoring or minoring in French, German or Spanish must declare their major or minor in the department and are required to have academic advisers in their major and minor field and maintain close contacts with the faculty advisers in order to select and prepare their course of study. Majors should see their advisers at least once a semester. It is recommended that the major be declared before or during the sophomore year.

Culture and Civilization Course Requirement

The requirement of 6 hours of Culture and Civilization for Spanish majors is strongly felt by the Spanish faculty to be a necessity in their program. This is primarily because of the great diversity of Spanish-speaking countries in Europe, South America and Central America and the importance of a knowledge of this diversity for all who teach or otherwise use Spanish. The French faculty also feel that French Culture and Civilization represents a necessary aspect of the language program. They believe the study of the culture and civilization of the French-speaking people and their countries cannot be separated from the study of the language. The German Culture and Civilization course is required for the Teacher Education program in German.

Double Majors

The department encourages its language majors in French, German or Spanish to carry an additional major in either another language or to combine their language with another field of study. Interested students should consult the department.

MAJOR IN FRENCH LITERATURE/PROFESSIONAL PROGRAM

In addition to the General Education (GenEd) requirements, French Literature/Professional Program majors must complete 30

credit hours with a grade equivalent of 2.00 or higher in French beyond the intermediate level. Of the 30 hours, at least 15 hours must be taken at Towson University.

Required Courses (15 credits)

- FREN 301-302 Composition and Conversation I, II (3, 3)
 FREN 311 Culture and Civilization I (3)
 or
 FREN 312 Culture and Civilization II (3)
 FREN 321-322 Survey of French Literature I, II (3, 3)

Electives

Fifteen hours in the target language, including 9 hours of literature at the 400 level are required.

Students wishing to acquire Professional Program rather than Literature Study, with the permission of the department, can substitute the Internship (497) for one 400-level elective course. The internship is generally completed in the junior or senior year, and students will need to complete 27 credits beyond the intermediate level and have a quality point average of at least 2.50 in the foreign language before applying for the Internship.

FRENCH SECONDARY EDUCATION PROGRAM

French majors may wish to obtain certification to teach French at the secondary level. Students in this Secondary Education Program receive certification to teach in Maryland upon graduation. In addition to the GenEd requirements and the requirements specified by the Department of Secondary Education, students must complete 30 credits with a grade equivalent of 2.00 or higher beyond the intermediate level from among the following courses.

Majors who are in the Secondary Education Program are required to take Advanced Grammar and Method of Teaching a Foreign Language before student teaching.

Requirement for Admission to Teacher Education Program

All students applying for admission to a Teacher Education program at Towson University are required to complete a Criminal Background Disclosure Form. This form is to be notarized and sent to the director of the Center for Applied Skills in Education (CASE) in the College of Education to be kept on file.

Required Courses (24 credits)

- FREN 301-302 Composition and Conversation I, II (3, 3)
 FREN 311 Culture and Civilization I (3)
 or
 FREN 312 Culture and Civilization II (3)
 FREN 321-322 Survey of French Literature I, II (3, 3)
 FREN 391 Advanced Grammar (taken before student teaching) (3)
 FREN 401 French Phonetics (3)
 FREN 402 Applied French Linguistics (3)

Electives

Six hours of electives at the 400 level are required.

MAJOR IN GERMAN LITERATURE/PROFESSIONAL PROGRAM

In addition to the GenEd requirements, German Literature/Professional Program majors must complete 30 credit hours with a grade equivalent of 2.00 or higher in German beyond the intermediate level. Of the 30 hours, at least 15 hours must be taken at Towson University.

Required Courses (15 credits)

- GERM 301-302 Composition and Conversation I, II (3, 3)
 GERM 311 Culture and Civilization I (3)
 GERM 321 Survey of German Literature I (3)
 GERM 341 Readings in Contemporary German (3)

Electives

Fifteen hours in the target language, including 9 hours of literature at the 400 level are required.

Students wishing to acquire Professional Program rather than Literature Study, with the permission of the department, can substitute the Internship (497) for one 400-level elective course. The internship is generally completed in the junior or senior year, and students will need to complete 27 credits beyond the intermediate level and have a grade point average of at least 2.50 in the foreign language before applying for the internship.

GERMAN SECONDARY EDUCATION PROGRAM

German majors in the Secondary Education Program receive certification to teach in Maryland upon graduation. In addition to the GenEd requirements and the requirements specified by the Department of Secondary Education, students must complete 30 credits with a grade equivalent of 2.00 or higher beyond the Intermediate level from among the following courses. Stylistics is recommended as an elective.

Requirement for Admission to Teacher Education Program

All students applying for admission to a Teacher Education program at Towson University are required to complete a Criminal Background Disclosure Form. This form is to be notarized and sent to the director of the Center for Applied Skills in Education (CASE) in the College of Education to be kept on file.

Required Courses (21 credits)

- GERM 301-302 Composition and Conversation I, II (3, 3)
 GERM 311 Culture and Civilization (3)
 GERM 321 Survey of Literature I (3)
 GERM 341 Readings in Contemporary German (3)
 GERM 391 Advanced German Grammar (3)
 GERM 401 German Phonetics (3)

Electives

Nine hours of electives are required at the 400 level. (GERM 401 will be offered every three semesters or in accordance with student needs.)

MAJOR IN SPANISH LITERATURE/PROFESSIONAL PROGRAM

In addition to the GenEd requirements, Spanish Literature/Professional Program majors must complete 30 credit hours with a grade equivalent of 2.00 or higher in Spanish beyond the intermediate level. Of the 30 hours, at least 15 hours must be taken at Towson University.

Required Courses (18 credits)

- SPAN 301-302 Composition and Conversation I, II (3, 3)
 SPAN 311 Culture and Civilization I (3)
 SPAN 312 Culture and Civilization II (3)
 SPAN 321-322 Survey of Spanish Literature I, II (3, 3)

Electives

Twelve hours in the target language, including 9 hours of literature at the 400 level are required.

Students wishing to acquire Professional Program rather than Literature study, with the permission of the department, can substitute the Internship (497) for one 400-level elective course. The internship is generally completed in the junior or senior year, and students will need to complete 27 credits beyond the intermediate level and have a grade point average of at least 2.50 in the foreign language before applying for the internship.

SPANISH SECONDARY EDUCATION PROGRAM

Spanish majors in the Secondary Education Program receive certification to teach in Maryland upon graduation. In addition to the GenEd requirements and the requirements specified by the

Department of Secondary Education, students must complete 30 credits with a grade equivalent of 2.00 or higher beyond the intermediate level in the following courses.

Requirement for Admission to Teacher Education Program

All students applying for admission to a Teacher Education program at Towson University are required to complete a Criminal Background Disclosure Form. This form is to be notarized and sent to the director of the Center for Applied Skills in Education (CASE) in the College of Education to be kept on file.

Required Courses (27 credits)

SPAN 301-302 Composition and Conversation I, II (3, 3)
SPAN 311-312 Culture and Civilization I, II (3, 3)
SPAN 321-322 Survey of Literature I, II (3, 3)
SPAN 391 Advanced Spanish Grammar (3)
SPAN 401 Spanish Phonetics (3)
SPAN 402 Spanish Linguistics (3)

Required Literature Courses

Three hours of a 400-level literature course must be taken in Spanish.

MINOR IN MODERN LANGUAGE

This program is designed to provide majors in other disciplines with the educational background necessary to broaden and enhance their career opportunities and to enable teacher candidates to meet the requirements for a Maryland State Department of Education teaching certificate.

The minor in French, German, Italian and/or Spanish requires students to complete 12 upper-division credit hours plus the intermediate level courses I and II, to complete 18 credits. SCED 353, Teaching Modern Language in the Secondary Schools, is required of teaching candidates in addition to the minor.

The Italian minor requires Italian Intermediate I and II, or the equivalent, and 12 upper-division credits in Italian Composition and Conversation I or II, Italian Culture and Civilization, Readings in Contemporary Italian, and one 3-credit elective at or above the 300 level.

Language minors may transfer up to 8 hours toward a minor and must earn 12 upper-division credit hours at Towson.

The minor should be approved by students' department adviser and cannot be taken concurrently with the Certificate of Proficiency in a modern foreign language.

Required Courses (18 credits)

Intermediate Level Courses I and II (3, 3)
Composition and Conversation I or II (3)
Culture and Civilization I or II (3)
Advanced Grammar (3)
Elective course (3)

PROFICIENCY IN A MODERN FOREIGN LANGUAGE

The department has designed a program of study that offers the non-language major or minor a recognition of Proficiency in Modern Languages with a focus in French, German or Spanish upon satisfactory completion of prescribed requirements.

The proficiency may be earned by a degree candidate at Towson University as well as any individual whose sole interest in attending the university is for the purpose of obtaining the proficiency of the language.

The program is designed for those individuals who are planning or practicing careers which require reasonable oral and written competence in a modern language. In the job market, national and international, we are aware that a large number of opportunities await persons whose knowledge of one or more modern languages has been well established through intensive college/university study. The proficiency is quite advantageous for

aspiring professionals in the fields of communications, public service, business and finance, agriculture, transportation, health services, education, energy, natural resources, journalism, law, foreign services, air traffic, management, import/export purchasing, sales, etc.

In order to complete the recognition of proficiency, students must complete all required courses with a grade equivalent of 2.00 or higher. Students who are prepared to begin at the advanced level will need to complete 12 credits of study, whereas students who begin at the elementary level will have to earn 24 credits in the particular language.

Required Courses (24 credits)

101-102 Elements (3, 3)
201-202 Intermediate (3, 3)
301 Composition and Conversation I (3)
or
302 Composition and Conversation II (3)
311 Culture and Civilization I (3)
or
312 Culture and Civilization II (3)
391 Advanced Grammar (3)
495 Internship for the Proficiency in French, German or Spanish (3)
Special courses will be planned and introduced in accordance with student needs.

MEETING B.A. REQUIREMENTS

The completion of the intermediate level, or its equivalent, is required of all candidates for the Bachelor of Arts degree. This requirement may be met by (a) completing two or more years of the language in high school plus the intermediate level courses in college, (b) completing the elementary and intermediate level courses in the language in college, *(c) successfully completing an equivalency examination in any language offered at the intermediate level administered each November by the Department of Modern Languages at Towson University, (d) successfully completing one semester of any course beyond the intermediate level or *(e) successfully completing a Credit for Prior Learning examination in any language offered at the 301-302 level administered each November by the Department of Modern Languages at Towson University.

*Students interested in (c) or (e) should consult the department for further information.

COMPETENCY CREDITS IN MODERN FOREIGN LANGUAGES

Degree candidates successfully completing courses numbered 102, 201, 202 or 301 in any foreign language offered by the Department of Modern Languages at Towson University may earn a maximum of 6 credits for the two preceding courses if the course in which they are enrolled is successfully completed with a grade equivalent of 2.00 or higher in the first attempt. Students may attempt to earn competency credits by completing a higher level language course only once. Students who have earned credits via the competency credits or Credit for Prior Learning exam in a foreign language cannot enroll in any other lower-level courses in the same language for which they received the credits. Students should consult the department for detailed information about the competency credits in foreign languages.

PLACEMENT IN LANGUAGES

The department's policy regarding placement of entering students with high school language study follows:

- One year of high school language study, students may register for 101 or 102.
- Two years of high school language study, students may register for 102 or 201.

- Three years of high school language study, students may register for 201 or 202.
- Four years of high school language study, students may register for 202 or any 300-level course.
- Five years of high school language study, students may register for any 300-level course.

Students will normally want to register for the higher level course for which they are qualified. Deviations from this plan must be approved by the department.

TRANSFER CREDIT POLICY

All foreign language majors must complete a minimum of 15 credits toward the major at Towson University at the upper (300-400) level.

All foreign language minors must complete a minimum of 6 credits toward the minor at Towson University at the upper level.

HONORS PROGRAM

The department participates in the University Honors Program. Students interested in completing a language major with honors should consult the department Honors Board representative no later than the first semester of their junior year.

SPECIAL DEPARTMENTAL PROGRAMS

The department sponsors the Eta Gamma Chapter of the National Spanish Honor Society, Sigma Delta Pi, and encourages all Spanish students to participate in the activities of the society. The department also sponsors the Kappa Pi chapter of the National French Honor Society, Phi Delta Phi.

The department offers an internship program through the Career Center Office.

A year abroad in France, Germany, Spain, Mexico or Italy is also available.

The department is a testing center for the *Certificat Pratique du Francais Commercial et Economique*. Students may take the test for the *Certificat* after having completed the French for Business course.

Note for foreign language students: Courses at the levels of 101, 102, 201 and 202 in any foreign language offered by the department are not open to students who have completed a higher level in the same language.

Department of Philosophy and Religious Studies

Professors: Wolfgang Fuchs, Christos Evangeliou, John Murungi (Chair), Jo-Ann Pilardi

Associate Professors: Rose Ann Christian, Daniel Kealey, Wing Chun Wong

Assistant Professor: Stephen Scales

OFFICE

Linthicum Hall 219F, 410-830-2755

PROGRAMS OF THE DEPARTMENT

The examination of the nature of philosophy is an essential feature of the Philosophy Program. The program pays close attention to the history of philosophy, for it is in its history that the nature of philosophy is manifested. The program also attends to the diverse social and cultural settings out of which philosophy develops, to which it speaks, and with which it interacts. Philosophy cultivates and nourishes rigorous thinking; the development and the practice of analytic and dialectical skills are strongly emphasized.

The program prepares students for advanced work in philosophy, humanistic studies and various professions. The sound, clear and systematic thinking that philosophy emphasizes also makes philosophical education relevant to every other discipline. Hence, the program is designed to meet not only the needs of the majors and minors but also the needs of every other student in the university. Furthermore, it fosters reflection, a prerequisite for leading the good life.

The department also offers a variety of courses on religion. These courses investigate the nature of religion as it is manifested in various religions and also inquire into the role that religion plays both in the lives of individuals and in cultures.

A proposal for a major and minor in Religious Studies to be offered by the Department of Philosophy and Religious Studies is pending approval by the Maryland Higher Education Commission. In the interim, students interested in Religious Studies should review the program offered under Interdisciplinary Studies.

The department offers a major and a minor in Philosophy. The program encourages students to take as great a diversity of courses as possible. It is flexible enough to ensure the incorporation of new interpretations and new schools of philosophy. It also enables the faculty to be innovative and to develop new courses.

In exceptional instances, students may, with the permission of the chair, make substitutions of courses within the department for required courses. Three credits may, with the permission of the chair, be taken in an allied discipline.

MAJOR IN PHILOSOPHY (33 credits)

Section A: Required Courses (3 credits)

PHIL 111 Logic (3)

Section B: Required Courses (9 credits)

PHIL 221 Ancient Greek Philosophy (3)

PHIL 322 Hellenistic and Medieval Philosophy (3)

PHIL 324 Modern Philosophy (3)

PHIL 325 Schools of Contemporary Philosophy (3)

Section C: Required Courses (6 credits)

PHIL 301 Philosophies of India (3)

or

PHIL 302 Philosophies of China and Japan (3)

PHIL 326 American Philosophy (3)

PHIL 327 African Philosophy (3)

PHIL 357 Topics in Comparative Religion (3)

Section D: Required Courses (6 credits)

- PHIL 201 Social and Political Philosophy (3)
 PHIL 319 Science, Technology and Values (3)
 PHIL 332 Feminist Philosophy (3)
 PHIL 341 Ethics (3)

Section E: Required Courses (3 credits)

- PHIL 320 Philosophy of Science (3)
 PHIL 321 Philosophy of Law (3)
 PHIL 339 Theories of Knowledge (3)
 PHIL 343 Aesthetics (3)
 PHIL 353 Philosophy of Religion (3)
 PHIL 380-389 Philosophical Topics (3)

Section F: Electives (6 credits)

- PHIL 413 Phenomenology (3)
 PHIL 417 Existentialism (3)
 PHIL 440-449 Philosophical Systems (3)
 PHIL 460-469 Writing Seminar in Philosophical Studies (3)
 PHIL 470-479 Philosophical Problems (3)
 PHIL 495 Research Tutorial in Philosophy (3)

MINOR IN PHILOSOPHY (24 credits)**Section A: Required Courses (6 credits)**

- PHIL 111 Logic (3)
 PHIL 101 Introduction to Philosophy (3)

Section B: Required Courses (6 credits)

- PHIL 221 Ancient Greek Philosophy (3)
 PHIL 322 Hellenistic and Medieval Philosophy (3)
 PHIL 324 Modern Philosophy (3)
 PHIL 325 Schools of Contemporary Philosophy (3)

Section C: Required Courses (3 credits)

- PHIL 301 Philosophies of India (3)
 PHIL 302 Philosophies of China and Japan (3)
 PHIL 326 American Philosophy (3)
 PHIL 327 African Philosophy (3)
 PHIL 357 Topics in Comparative Religion (3)

Section D: Required Courses (3 credits)

- PHIL 201 Social and Political Philosophy (3)
 PHIL 319 Science, Technology and Values (3)
 PHIL 332 Feminist Philosophy (3)
 PHIL 341 Ethics (3)

Section E: Required Courses (3 credits)

- PHIL 320 Philosophy of Science (3)
 PHIL 321 Philosophy of Law (3)
 PHIL 339 Theories of Knowledge (3)
 PHIL 343 Aesthetics (3)
 PHIL 353 Philosophy of Religion (3)
 PHIL 380-389 Philosophical Topics (3)

Section F: Required Courses (3 credits)

- PHIL 413 Phenomenology (3)
 PHIL 417 Existentialism (3)
 PHIL 451 Philosophy of Religion (3)
 PHIL 440-449 Philosophical Systems (3)
 PHIL 460-469 Writing Seminar in Philosophical Studies (3)
 PHIL 470-479 Philosophical Problems (3)
 PHIL 495 Research Tutorial in Philosophy (3)

TRANSFER CREDIT POLICY

All Philosophy majors must complete a minimum of 24 credits toward the major at Towson University, with at least 18 credits at the upper (300-400) level.

All Philosophy minors must complete a minimum of 18 credits toward the minor at Towson University, with at least 12 credits at the upper level.

Department of Political Science

Professors: Eric Belgrad (*Chair*), David Dent, Jack Fruchtman, Martha Kumar, Toni Marzotto, Joseph Rudolph
Associate Professors: Cynthia Cates, Dennis Muniak, James Roberts

Assistant Professors: Griffin Hathaway, Michael Korzi, Daniel Whiteneck

Instructor: Arnold Isaacs

Lecturer: James L. Hardin

Part-time Faculty: John Bowen, James Brochin, Robert Ginsburg, John Isaacs, Charles King, G. Franklin Mullen, Nitza Nachmias, Dennis Rasmussen, Sabrina Willis, Ted Zaleski

OFFICE

Linthicum Hall 118M, 410-830-2958, Fax: 410-830-2960

PROGRAMS OF THE DEPARTMENT

The program of courses in Political Science aims to promote understanding of the nature of political relationships. The department offers a major and minor in Political Science. In addition, the Department of Political Science offers a double major with the Department of Economics, the Department of Mass Communication and Communication Studies, and with the Department of Geography and Environmental Planning. Students wishing to major in both Political Science and Economics, or Political Science and Geography and Environmental Planning, or Political Science and Mass Communication, or Political Science and Communication Studies can obtain a double major which certifies that the requirements of both departments have been completed. Students should refer to the section on double majors listed on the next page. The major prepares students for advanced study and provides the foundation for careers in public administration, law, public relations, business and research, and urban and regional planning.

MAJOR IN POLITICAL SCIENCE

Thirty-six credits with a grade equivalent of 2.00 or higher are required for the major in Political Science. Students must complete the following requirements:

At least 9 credits at the lower-division, of which no more than 3 credits may be at the 200 level.

At least 24 credits at the upper-division, including courses in three of the four topical areas: Comparative Politics, International Politics, American Government and Public Administration, and Law and Political Theory.

Note: Courses taught under Independent Study (POSC 490) or under Special Topics (POSC 470-479) will be assigned to one of the four areas by the department or students' advisers. This is to assure that courses taken under these two categories are not used in more than one area in order to meet the three area requirements.

Three credits from among the approved seminar courses. (Note: Seminar credit will not be given for Independent Study POSC 490). All courses must be completed with a grade equivalent of 2.00 or higher except POSC 465. "Pass" will count only for POSC 465.

Required Courses (36 credits)

At least three of the following, of which no more than one may be at the 200 level:

- POSC 101 Introduction to Political Science (3)
 POSC 103 American National Government (3)
 POSC 105 Governments of the World (3)
 POSC 107 Introduction to International Relations (3)
 POSC 207 State Government (3)
 POSC 209 Introduction to Law (3)

Approved Seminar Courses

- POSC 455 Seminar: International Law and Organization I (3)
 POSC 456 Seminar: International Law and Organization II (3)
 POSC 457 Seminar: Use of Force in International Law (3)
 POSC 482 Seminar in Political Science (3)
 POSC 483 Seminar: Politics and the News Media (3)
 POSC 485 Seminar: Democratic Theory Seminar (3)
 POSC 486 Seminar: Justice and the Law (3)
 POSC 488 Seminar: Topics in Public Policy (3)
 POSC 491 Seminar in Contemporary United States Foreign Policy (3)

Electives

Twenty-four credits of electives, not counting the required seminar, must be taken at the upper division in three of the four topical areas of Political Science.

Topical Areas

The department offers courses in four topical areas: Comparative Politics, International Politics, American Government and Public Administration, and Law and Political Theory. The numbers indicate courses that are offered in each area.

Comparative Politics: 333, 337, 338, 339, 340, 341, 351, 433, 451, 470, 471, 490, 498, 499

International Politics: 303, 307, 355, 385, 432, 435, 437, 439, 441, 445, 465, 472, 473, 474, 490, 491, 498, 499

American Government and Public Administration: 305, 361, 375, 381, 383, 417, 421, 450, 451, 461, 463, 467, 475, 476, 477, 490, 493, 498, 499

Law and Political Theory: 359, 418, 419, 427, 428, 430, 478, 479, 490, 498, 499

MINOR IN POLITICAL SCIENCE

Twenty-one credits with a grade equivalent of 2.00 or higher are required for the minor in Political Science to be completed as follows: at least 6 credits at the lower division of which no more than 3 credits may be at the 200 level; at least 15 credits at the upper division.

Required Courses (21 credits)

At least two of the following, of which no more than one may be at the 200 level:

- POSC 101 Introduction to Political Science (3)
 POSC 103 American National Government (3)
 POSC 105 Governments of the World (3)
 POSC 107 Introduction to International Relations (3)
 POSC 207 State and Local Government (3)
 POSC 209 Introduction to Law (3)

Electives (15 credits)

Select 15 upper-division elective credits in Political Science.

DOUBLE MAJOR IN POLITICAL SCIENCE AND ECONOMICS

Completion of individual majors in Political Science and Economics requires the successful completion of 69 credits (36 in Political Science and 33 in Economics). However, by electing the double major in Political Science and Economics, students will be able to complete both majors with a total of 60 credits. Students interested in either of the double majors should consult with an adviser in either department to review requirements.

In Political Science, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Economics toward fulfillment of the required eight upper-level courses (24 credits) in Political Science:

- ECON 323 Comparative Economic Systems (3)
 ECON 331 Government and Economic Life (3)
 ECON 337 Public Finance (3)
 ECON 351 Urban Economics (3)

In Economics, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Political Science toward fulfillment of the required four courses (12 credits) of upper-division Economic electives:

- POSC 305 Urban Government and Politics (3)
 POSC 375 Public Administration (3)
 POSC 470-479 Special Topics* (3)
 POSC 482 Public Policy Analysis (seminar or lecture course) (3)

*Topic to be approved by the Department of Economics

DOUBLE MAJOR IN POLITICAL SCIENCE AND GEOGRAPHY AND ENVIRONMENTAL PLANNING

Completion of individual majors in Political Science and Geography requires the successful completion of 75 credits (36 in POSC, 39 in GEOG). However, by electing the double major in Political Science and Geography, students will be able to complete both majors with a total of 65 credits. Students interested in this double major should consult with an adviser in either department to review requirements.

In Political Science, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Geography and Environmental Planning toward fulfillment of the required eight upper-level courses (24 credits) in Political Science:

- GEOG 317 Energy Resources (3)
 GEOG 355 Historic Geography of Urbanization (3)
 GEOG 359 Economic Geography (3)
 GEOG 381 Political Geography (3)
 GEOG 385 Population Geography (3)
 GEOG 391 Urban Systems (3)
 GEOG 393 Transportation and Infrastructure Planning (3)
 GEOG 405 Comprehensive Planning (3)
 GEOG 427 Global Economy (3)
 GEOG 431 Geography of Africa (3)
 GEOG 461 Geography of Latin America (3)
 GEOG 470-79 Seminar in Geography* (3)

* Topic to be approved by the Department of Political Science

In Geography and Environmental Planning, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Political Science toward fulfillment of the required five courses (15 credits) of lower/upper-division Geography and Environmental Planning electives:

- POSC 303 Theory of International Politics (3)
 POSC 305 Urban Government and Politics (3)
 POSC 307 Contemporary International Politics (3)
 POSC 337 Comparative Government of Foreign Powers: The Western World (3)
 POSC 340 Comparative Public Policy (3)
 POSC 341 African Government and Politics (3)
 POSC 351 The Government and Politics of Latin America (3)
 POSC 355 The Latin American Policy of the U.S. (3)
 POSC 385 Model Organization of American States (3)
 POSC 435 Africa in World Politics (3)
 POSC 441 Contemporary U.S.-European Relations (3)
 POSC 445 U.S. Foreign Policy in South Asia (3)
 POSC 470-79 Special Topics in Political Science* (3)
 POSC 488 Seminar: Topics in Public Policy (3)

* Topics to be approved by the Department of Geography and Environmental Planning

DOUBLE MAJOR PROGRAMS WITH MASS COMMUNICATION AND COMMUNICATION STUDIES

Completion of individual majors in Political Science and Communication Studies or Political Science and Mass Communication requires the successful completion of 72 credits (36 in each

major). However, by electing the double major in Political Science and Communication Studies or Political Science and Mass Communication, students will be able to complete both majors with a total of 60 credits. Students interested in either of the double majors should consult with an adviser in either department to review requirements.

DOUBLE MAJOR IN POLITICAL SCIENCE AND COMMUNICATION STUDIES

In Political Science, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Communication Studies toward fulfillment of the required 8 upper-level courses (24 credits) in Political Science:

COMM 304	Persuasion (3)
COMM 331	Argument and Advocacy (3)
COMM 379	Intercultural Communication (3)
COMM 420	Communication in the Legal Process (3)
COMM 470	Special Topics* (3)

*Topic to be approved by the Department of Political Science

In Communication Studies, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Political Science toward fulfillment of the required three courses (9 credits) of Communication Studies electives:

POSC 340	Comparative Public Policy (3)
POSC 361	Political Behavior (3)
POSC 375	Public Administration (3)
POSC 381	Presidency (3)
POSC 383	Congress (3)
POSC 417	Political Parties (3)
POSC 459	Simulation and Games (3)
POSC 461	Research Methods (3)
POSC 470-479	Special Topics* (3)

*Topic to be approved by the Department of Mass Communication and Communication Studies

DOUBLE MAJOR IN POLITICAL SCIENCE AND MASS COMMUNICATION

In Political Science, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Mass Communication toward fulfillment of the required eight upper-level courses (24 credits) in Political Science:

MCOM 350	Media Law (3)
MCOM 352	Media Criticism (3)
MCOM 385	Mass Media and Society (3)
MCOM 431	Public Opinion and the Press (3)
MCOM 433	Media Ethics (3)
MCOM 479	Special Topics* (3)

*Topic to be approved by the Department of Political Science

In Mass Communication, students must complete all requirements for the major. However, they must substitute two of the following upper-level courses (6 credits) in Political Science toward fulfillment of the required seven courses (21 credits) of electives in Mass Communication:

POSC 340	Comparative Public Policy (3)
POSC 361	Political Behavior (3)
POSC 375	Public Administration (3)
POSC 381	Presidency (3)
POSC 383	Congress (3)
POSC 417	Political Parties (3)
POSC 459	Simulation and Games (3)
POSC 461	Research Methods (3)
POSC 470-479	Special Topics* (3)

*Topic to be approved by the Department of Mass Communication and Communication Studies

TRANSFER CREDIT POLICY

Students who transfer to Towson University in senior standing are expected to complete a minimum of 15 credits of upper-division political science courses. Those who transfer below senior standing normally will be expected to complete 21 credits of upper-division political science courses at Towson University.

CAREERS IN POLITICAL SCIENCE

Political science majors generally prepare themselves, at the undergraduate level, for careers in law, government (federal, state and local), service in public and private interest groups, business, and journalism and the media, as well as research and teaching at various levels of the education system.

STUDENT OPPORTUNITIES

Activities

In addition to its academic curriculum, the department offers opportunities providing a broad range of related experiences. Classes travel to Annapolis and Washington, D.C. to observe first hand the political workings of government. The annual Earle T. Hawkins Symposium on International Affairs brings to campus noted scholars to lecture on topics of contemporary relevance. Political Science majors are given the opportunity to edit the *Towson Journal of International Affairs*, one of the few undergraduate academic journals in this country.

Internships

An integral part of the Political Science curriculum is the opportunity for students to participate in an internship in their junior or senior year. Students are placed in all branches of government and at all levels of government. Placements with the Maryland General Assembly or a Member of Congress are most common.

Department of Psychology

Professors: Barry Bass, Michael Figler, James Furukawa, Craig Johnson, Stuart Miller, Frederick Parente, Herbert Petri, Jeffrey Sanders, Jan Sinnott

Associate Professors: Janet Anderson, Margaret Faulkner, Roger Fink, Maria Fracasso (*Chair*), Lawrence Froman, John Govern, Thomas Kruggel, Joan Rabin, John Webster

Assistant Professors: Jean Ayers, Susan Bartels, Bethany Brand, Alan Clardy, Paz M. Galupo, David Jahn, Paul Lavin, Jonathan Mattanah, Bruce Mortenson, Bina Raval, Kim Shifren, Evangeline Wheeler, Stanley Zweback

Visiting Associate Professor: David Cowie

Visiting Assistant Professor: Laurie Orgel

Part-time Faculty: Joseph Abate, Patricia Alvey, Joella Anzelc, Majorie Ashcraft, Marilyn Austin, Philip Burge, John Clark, Lloyd Collins, Richard Craig, Holly Davani, Paul Del Nero, Joan Evensen, Sandra Fink, Heather Fox, Julie Fulcher, Scott Gehring, Kathleen Grau, John Harris, John Hickey, Nancy C. Hoffman, Scott Holzman, Kim Houser, Mark Jacobson, Natasha Kara, Dean R. Kirschner, Cynthia Larson-Daughtery, Thomas Little, Sara Maggitti, Evelyn Marx, Lloyd McCraney, Joan McDermott, Mary Ann Michaloski, Charles Miron, Thomas Monahan, Arthur Mueller, Alan Nemerofsky, Mark Nolder, Michael Oidick, Kathleen Ratican, Linda Rice, Joyce Rochlin, Gary Rockwood, Ginny Ready, Henry Scharles, Nancy Shapiro, Barbara Shue, Frances Spencer, Michael Steinhart, Robert Storey, Edward Toyer, Lorraine Ukens, Jessie Ungard, Karen Webster, Sharon Weiss, Geri Willen, Barbara Wilson

OFFICE

Psychology Building 200, 410-830-2634

Fax: 410-830-3800

www.towson.edu/~petri/psy~hpg.html

PROGRAMS OF THE DEPARTMENT

The Department of Psychology offers the following programs: the major in Psychology, the minor in Psychology, and the Clinical Concentration Program for Psychology majors.

The major in Psychology prepares students for graduate work in psychology, for training in special education and general education, for careers requiring a liberal arts background, and for work in clinical services.

MAJOR IN PSYCHOLOGY

Majors are required to complete 35 credits in Psychology with a grade equivalent of 2.00 or higher, including 26 credits of required courses and 9 hours of electives (no Pass grades accepted). Of the 26 required credits, 14 are to be completed in the core courses by taking 101 or 102, 203 or 204, 212, and 314. The remaining 12 required credits are to be completed by taking one course in each of the four topical areas: Human Development, Clinical-Social, Biopsychology and Learning-Cognition.

Core Courses (14 credits)

The following 14 credits are required:

PSYC 101 Introduction to Psychology (3)

or

PSYC 102 Honors Introduction to Psychology (3)

PSYC 203 Human Development (3)

or

PSYC 204 Honors Human Development (3)

PSYC 212 Behavioral Statistics (4)

(Prerequisite – one college math course)

PSYC 314 Experimental Psychology (4)

(Prerequisites: ENGL 102 or 190; PSYC 101 or 102, PSYC 212; PHIL 101 or 110)

Topical Areas (12 credits)

I. Human Development (PSYC 203 is a prerequisite)

One of the following is required:

PSYC 403 Psychology of Infancy and Childhood (3)

PSYC 404 Adolescent Psychology (3)

PSYC 405 Psychology of Aging (3)

PSYC 447 Sex Differences: Psychological Perspectives (3)

PSYC 451 Introduction to the Exceptional Child (3)

PSYC 467 Midlife Development (3)

II. Clinical-Social

One of the following is required:

PSYC 311 Behavior Modification (3)

PSYC 325 Social Psychology (3)

PSYC 327 Industrial Psychology (3)

PSYC 341 Environmental Psychology (3)

PSYC 350 Personality (3)

PSYC 361 Abnormal Psychology (3)

PSYC 409 Organizational Psychology (3)

PSYC 411 Tests and Measurements (3)

PSYC 421 Applications of Behavioral Principles to Family and Classroom Environments (3)

PSYC 431 Group Dynamics (3)

III. Biopsychology (BIOL 110 is a prerequisite)

One of the following is required:

PSYC 317 Sensation and Perception (3)

PSYC 460 Ethology and Comparative Psychology (3)

PSYC 465 Physiological Psychology (3)

IV. Learning-Cognition

One of the following is required:

PSYC 305 Psychology of Learning (3)

PSYC 315 Motivation (3)

PSYC 461 Cognitive Psychology (3)

Electives (9 credits)

The remaining 9 elective credits may be selected from any 200-, 300-, or 400-level psychology courses. Electives may include other courses from the topical areas not selected as requirements or any other psychology course listed in this catalog with the exception of PSYC 211 and PSYC 230.

CLINICAL CONCENTRATION PROGRAM

The Clinical Concentration Program offers training in Clinical Psychology leading to a bachelor's degree in Psychology from Towson University and a certificate in Mental Health from the Education Center of the Sheppard and Enoch Pratt Hospital. The program provides a four-semester course sequence, beginning in the first term of the junior year. Courses are organized around practicum experience with extensive supervision so that there is unbroken continuity between theory and practice of clinical skills. This is a selective program for which students must apply by February 25 of their sophomore year.

The curriculum requirements consist of three components: GenEd requirements and psychology department requirements; two prerequisite courses which must be completed during the sophomore year and before entry into the program, Abnormal Psychology and Introduction to the Helping Relationship, and the following Clinical Concentration Program courses:

SEMESTER 1

PSYC 430 Systems and Techniques of Psychotherapy (3)

PSYC 439 The Initial Interview (3)

SEMESTER 2

PSYC 453 Issues in Mental Health Intervention (2)

PSYC 454 Internship in Psychotherapy (4)

SEMESTER 3

PSYC 431 Group Dynamics (3)

PSYC 454 Internship in Psychotherapy (4)

SEMESTER 4

PSYC 433 Group Psychotherapy Internship (3)

PSYC 454 Internship in Psychotherapy (4)

MINOR IN PSYCHOLOGY

Minors are required to complete 26 credits in Psychology with a grade equivalent of 2.00 or higher in each course. Of these 26 credits, 14 credits are to be completed in the core courses, and 3 credits are to be completed in the topical area, Learning-Cognition. The remaining 9 credits are electives and may be selected from any of the 200-, 300-, or 400-level psychology courses with the exception of PSYC 211 and PSYC 230.

TRANSFER CREDIT POLICY

Students entering TU from another institution may transfer up to 15 credits toward the major and up to 10 credits toward the minor in Psychology upon approval of the department chair.

All Psychology majors must complete a minimum of 20 credits, and all Psychology minors must complete a minimum of 16 credits, toward the major or minor at Towson University.

HONORS IN PSYCHOLOGY

The department seeks to give special recognition to students for academic excellence through its Honors Program. The guiding philosophy of the program is to provide students with a specialized learning experience in both scholarly investigation and scholarly writing. Students who complete an approved program will receive a diploma with the designation Bachelor of Arts or Bachelor of Science with Honors in Psychology. Departmental honors will also appear on students' transcripts.

The program is developed for the junior and senior years and includes 6 to 7 credit hours in PSYC 381 and PSYC 491. A colloquium presentation based on the Senior Thesis (PSYC 499) is required. To be admitted to the program, students must present an overall average of 3.25 with an average of 3.50 in Psychology. To graduate from a program, recipients of the honors degree must maintain as a minimum the aforementioned cumulative averages. For additional procedural details, contact the department's Honors Program coordinator.

MASTER OF ARTS IN PSYCHOLOGY

The Master of Arts in Psychology is designed for students who are primarily interested in an advanced degree in Experimental Psychology, School Psychology, Clinical Psychology or Counseling. For detailed information, see the *Graduate Catalog*.

DEPARTMENT ANIMAL POLICY

In accordance with federal laws and regulation, Towson University, through its Institutional Animal Care and Use Committee, reviews the use of animals in teaching to assure compliance with the standards established by the USDA and NIH for the humane treatment of animals. The university makes every effort to minimize the use of animals and seeks alternatives wherever possible. Although Towson University recognizes that some students may believe the use of animals as teaching tools is inhumane, certain curricula require the use of animals as a necessary part of instruction. Accordingly, where the use of animals in class demonstrations or experiments is a requirement for successful completion of any course, as determined by the department, students will be obliged to comply with those requirements as set forth by the instructor in the course syllabus. The university will not provide optional procedures for students who do not comply with course requirements.

If a course requires the use of animals in class demonstrations or experiments, however, the syllabus must specifically state that animals will be used in class demonstration or experiments and that such use is a requirement for successful completion of the course. Notice of this requirement will be made a part of the course description and shall be placed in the catalog.

Social Sciences Program

Director: Carl Behm

Advisory Committee: Chang Kong (*Economics*), James Lawlor (*Secondary Education*), Toni Marzotto (*Political Science*), Ralph Scott (*Geography and Environmental Planning*)

OFFICE

Linthicum Hall 100A, 410-830-3600

THE PROGRAM

The Social Sciences Program is an interdepartmental major offering courses from the departments of Economics, Geography and Environmental Planning, History, Political Science, and Sociology, Anthropology and Criminal Justice.

The program is designed for those students who do not wish to major in a single discipline but are interested in a broad education, transcending traditional department boundaries. It is useful for those students who plan to enter graduate school for an advanced degree in one of the disciplines of the program and for those students who plan to enter professional schools for a degree in law, social service, or a phase of law enforcement as well as those students who seek a broad background in preparation for employment in business, industry, or a government agency. It is particularly designed for students planning to teach social studies at the secondary school level.

A coordinator administers the program, and faculty from the departments of Economics, Geography and Environmental Planning, History, Political Science, and Sociology, Anthropology and Criminal Justice advise students majoring in the program. Policies and requirements for the majors in Social Science are established by an advisory committee composed of representatives from the various disciplines included in the program.

The major offers students the choice of two Social Sciences programs: a Social Science major in Secondary Education or a Social Science major in Liberal Arts. The Bachelor of Arts degree may be earned in either Social Science major by adding a foreign language to the course requirements. The language requirement can be met by completing the intermediate courses of a modern foreign language or its equivalent.

MAJOR IN SOCIAL SCIENCE

Social Science majors must complete 60 credits with a grade equivalent of 2.00 or higher from among the following courses. The General Education (GenEd) requirements must also be fulfilled.

Required Courses (30 credits)

Two of the following:

- HIST 102 History of European Civilization through the 17th Century (3)
- HIST 103 History of European Civilization from the 17th Century (3)
- HIST 145 History of United States to the Mid-19th Century (3)
- HIST 146 History of United States since the Mid-19th Century (3)

One of the following:

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 109 Introduction to Human Geography (3)

One of the following:

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 105 Geography of International Affairs (3)
- GEOG 109 Introduction to Human Geography (3)
- GEOG 221 Interpretation of Maps (3)
- GEOG 299 Introduction to Source Materials and Research in Geography (3)

Two of the following:

- POSC 101 Introduction to Political Science (3)
- POSC 103 American National Government (3)
- POSC 105 Governments of the World (3)
- POSC 107 Introduction to International Relations (3)
- POSC 207 State Government (3)

All of the following:

- ANTH 207 Cultural Anthropology (3)
- ECON 201 Microeconomic Principles (3)
- ECON 202 Macroeconomic Principles (3)
- SOCI 101 Introduction to Sociology (3)

Upper-Division Requirements (24 credits)

Students must complete two courses in each of four disciplines of the six disciplines in the program at the upper-division level (300- or 400-level). At least 12 credits of upper-division courses must be taken at Towson University.

Electives

Select 6 credits of upper- or lower-division courses in any of the six disciplines in the program.

SOCIAL SCIENCE SECONDARY EDUCATION PROGRAM

Social Science majors in this Secondary Education Program receive certification to teach Social Science at the secondary level in Maryland upon graduation. See Secondary Education department requirements. In addition to the GenEd requirements, and the requirements specified by the Department of Secondary Education, students must complete 54 credits with a grade equivalent of 2.00 or higher from among the following courses.

Required Courses (45 credits)

- ANTH 207 Cultural Anthropology (3)
- ECON 201 Microeconomic Principles (3)
- ECON 202 Macroeconomic Principles (3)
- GENL 401 Topics in Social Science (3)
- HIST 102 History of European Civilization through the 17th Century (3)
- HIST 103 History of European Civilization from the 17th Century (3)
- HIST 145 History of United States to the Mid-19th Century (3)
- HIST 146 History of United States since the Mid-19th Century (3)
- HIST xxx African, Asian or Latin American history course (3)
- HIST xxx Elective History Course (3)
- POSC 103 American National Government (3)
- SOCI 101 Introduction to Sociology (3)

One of the following:

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 109 Introduction to Human Geography (3)

One of the following:

- GEOG 101 Physical Geography (3)
- GEOG 102 World Regional Geography (3)
- GEOG 105 Geography of International Affairs (3)
- GEOG 109 Introduction to Human Geography (3)
- GEOG 212 Interpretation of Maps (3)
- GEOG 299 Introduction to Source Materials and Research in Geography (3)

One of the following:

- POSC 101 Introduction to Political Science (3)
- POSC 105 Governments of the World (3)
- POSC 107 Introduction to International Relations (3)
- POSC 207 State Government (3)

Electives

Select three additional upper-division electives (300- or 400-level) from any of the disciplines in the program. The upper-division courses must be taken at Towson University.

TRANSFER CREDIT POLICY

Transfer students in the Social Sciences Program are required to earn a minimum of one-half the total number of credits required for the major at Towson University.



Department of Sociology, Anthropology and Criminal Justice

Professors: Alan Edelstein, Barbara Leons, Howard Nixon
(*Chair*), Frances Rothstein, Guy Sedlack, Jay Stanley,
Sandra Stanley

Associate Professors: Victor Fisher, Douglas Pryor

Assistant Professors: Elizabeth Clifford, Marion Cockey,
Samuel Collins, Stephen Feiler, Whitney Garcia, Marion
Hughes, Miriam Sealock

Part-time Faculty: Thomas Brown, Scott Buresh, Marianna
Burt, Meryl Cozart, Elaine Feder-Alford, Kristine Gentry,
Gloria Gibson, Stephen Hartmark, Ethel Hazard, Joseph
W. Hopkins, Ingrid Johnson, Roland Knapp, Edgar Koch,
Dana Kollmann, Timothy Longo, Thomas Lucadamo,
Brad Lyman, Susan Manning, Robert McQuay, Richard
Mitchell, Jamie Mullaney, Elizabeth Reiley, Robbie
Robinson, Tom Rodriguez, Lorri Rubenstein, Susan Topel,
Brad Trainor, Robert D. Wall

OFFICE

Linthicum Hall 318E, 410-830-2852

MAJOR IN SOCIOLOGY/ANTHROPOLOGY

The Department of Sociology, Anthropology and Criminal Justice offers major concentrations in Sociology, Anthropology and Criminal Justice under the Sociology/Anthropology degree program. These concentrations reflect the varied nature of the sociology, anthropology and criminal justice disciplines. Sociology is the scientific study of social interaction, social networks, social issues, and social problems that link people to each other and to society. Anthropology is the study of sociocultural patterns and the biological and cultural development of humans through time. Criminal justice is the scientific study of patterns of crime, other forms of social deviance, and social control in society. All three disciplines are intended to acquaint students with social science methods and perspectives needed to understand their society and the world. All provide students with knowledge and skills of analysis that will prepare them for entry into many occupations and for the pursuit of many different types of post-baccalaureate professional and graduate study.

For all courses of study in the department, the Bachelor of Arts degree may be earned by adding a foreign language to the major requirements. The language requirements can be met by completing the intermediate courses of a modern language or the equivalent. The Bachelor of Science degree is earned by completing department major and university degree requirements without meeting the foreign language requirements.

Towson University does not offer an undergraduate program approved by the state of Maryland for certification in social work. Many students, however, graduate from Towson University and pursue the Master of Social Work degree at another university. Students who are interested in social work or who wish to gain practical, career-oriented experience in another field benefit from taking the internship option in Sociology, Anthropology or Criminal Justice. The internship applies academic learning to work settings related to the student's major.

ANTHROPOLOGY AND SOCIOLOGY CONCENTRATIONS

All students pursuing a major concentration in Anthropology or Sociology must complete the Common Core in Sociology/Anthropology and either the Anthropology Concentration or the Sociology Concentration. The major program in Anthropology

or Sociology requires the completion of 12-13 credits in the Sociology/Anthropology Common Core and 27-28 credits in an Anthropology or Sociology Concentration. All courses must be completed with a grade equivalent of 2.00 or higher. Students are reminded that Using Information Effectively and Advanced Composition courses are required to fulfill the General Education (GenEd) requirements. SOCI 100 is a department course that meets the Using Information Effectively requirement (Category I.B). ANTH 401, SOCI 300, and WRIT 354 are department courses that meet the Advanced Composition requirement (Category I.D). Please note that when Introduction to Criminal Justice is offered as SOCI 354, it does not meet the Advanced Composition requirement. Individual courses in Sociology or Anthropology cannot satisfy more than one requirement or count in more than one section of the curriculum, unless otherwise indicated. Only ANTH 207 or ANTH 210 and SOCI 101 or SOCI 102 can be applied toward more than one section. The requirements and courses of the Sociology/Anthropology Common Core and the Anthropology and Sociology Concentrations are listed below.

Sociology/Anthropology Common Core (12-13 credits)

One of the following three courses (Honors students may take ANTH 210 instead of ANTH 207 but not both) (3):

- ANTH 207 Cultural Anthropology (3)
- ANTH 208 Human Evolution and Prehistory (3)
- ANTH 210 Honors Cultural Anthropology (3)

One of the following two courses (Honors students may take SOCI 102 instead of SOCI 101 but not both) (3):

- SOCI 101 Introduction to Sociology (3)
- SOCI 102 Honors Introduction to Sociology (3)

One of the following five courses (Honors students may take ANTH 211 instead of ANTH 209 but not both) (3):

- ANTH 209 Anthropology of American Culture (3)
- ANTH 211 Honors Anthropology of American Culture (3)
- SOCI 210 Sociology of Sport (3)
- SOCI 241 Blacks in America: Myths and Reality (3)
- SOCI 243 Sociology of Race, Class and Gender (3)

One of the following two courses (3-4):

- MATH 231 Basic Statistics I (3) or equivalent
- PSYC 212 Behavioral Statistics (4) or equivalent

ANTHROPOLOGY CONCENTRATION

This concentration requires a minimum of 27-28 credits plus the Sociology/Anthropology Common Core.

Select one of the following four Areas of Focus (A, B, C or D) to complete the Anthropology Concentration

A. Combined Anthropology/Sociology Area of Focus

One of the following three courses that was not taken in the Common Core (Honors students may take ANTH 210 instead of ANTH 207 but not both) (3):

- ANTH 207 Cultural Anthropology (3)
- ANTH 208 Human Evolution and Prehistory (3)
- ANTH 210 Honors Cultural Anthropology (3)

Both of the following courses (6):

- ANTH 37x Ethnographic Field Methods (3)
- ANTH 401 Anthropological Theory (3)

One of the following courses (3):

- SOCI 300 Sociological Analysis (3)
- SOCI 391 Research Methods (3)

Plus five additional upper-level courses not taken in the Sociology/Anthropology Common Core, three in Anthropology and two in Sociology (15).

B. General Anthropology Area of Focus

One of the following three courses that was not taken in the Sociology/Anthropology Common Core (Honors students may take ANTH 210 instead of ANTH 207 but not both) (3):

- ANTH 207 Cultural Anthropology (3)
- ANTH 208 Human Evolution and Prehistory (3)
- ANTH 210 Honors Cultural Anthropology (3)

Both of the following courses (6):

- ANTH 37x Ethnographic Field Methods (3)
- ANTH 401 Anthropological Theory (3)

Plus the following six courses (18):

Six courses in Anthropology: (a) at least five must be upper-level courses; (b) at least one must be an upper-level course in Archaeology; and (c) at least one must be from among area courses in Anthropology, ENGL 351, ENGL 352, SOCI 243, SOCI 300, SOCI 329, SOCI 381 or SOCI 391.

C. Archaeology Area of Focus

Courses listed in more than one group can be counted in only one group.

One of the following two courses (3):

- ANTH 381 Archaeological Methods and Theory (3)
- ANTH 393 Archaeological Field School (3)

The following course (3):

- ANTH 401 Anthropological Theory (3)

Three of the following courses (9):

- ANTH 311 Archaeology of Maryland (3)
- ANTH 370-79 Topics in Anthropology (3) (must be an Archaeology course approved by adviser)
- ANTH 381 Archaeological Methods and Theory (3)
- ANTH 383 North American Archaeology (3)
- ANTH 387 Native American Archaeoastronomy (3)
- ANTH 391 Archaeological Field Methods (3)
- ANTH 393 Archaeological Field School (3)
- ANTH 470-79 Special Topics in Anthropology (3) (must be an Archaeology course approved by adviser)

Two additional upper-level courses in Anthropology not taken in the Sociology/Anthropology Common Core (6).

One of the following courses (4):

- GEOL 121 Physical Geology (4)
- BIOL 201 Biology I: Cellular Biology and Genetics (4)
- BIOL 213 Human Anatomy and Physiology (4)
- BIOL 307 Introduction to Paleontology (4)

One of the following courses (3):

- ART 107 Ceramics for Non-Art Majors (3)
- ART 231 Ceramics I (3)
- GEOG 101 Physical Geography (3)
- GEOG 412 Introduction to Geographic Information Systems (3)
- HIST 101 Introduction to Ancient Civilization (3)

D. Globalization and Development Area of Focus

At least 24 credits must be at the upper level.

All of the following courses (9):

- ANTH 368 Development and Industrialization in Cross-Cultural Perspective (3)
- ANTH 388 Peasant Cultures (3)
- ANTH 401 Anthropological Theory (3)

One of the following courses (3):

- SOCI 300 Sociological Analysis (3)
- SOCI 329 Demography (3)
- SOCI 391 Research Methods (3)

Two of the following area courses (6):

- ANTH 331 Eskimo Ethnography (3)
- ANTH 353 Latinas in the Americas (3)
- ANTH 365 North American Indians (3)
- ANTH 366 South American Indians (3)

- ANTH 367 Peoples of the Middle East (3)
- ANTH 369 Tradition and Revolution in Latin America (3)
- ANTH 370-79 Topics in Anthropology (3) (must be area course approved by adviser)
- ANTH 470-79 Special Topics in Anthropology (3) (must be area course approved by adviser)

Two of the following theme courses or one theme course from below and one area course from the previous list (6):

- ANTH 321 Gender in Cross-Cultural Perspective (3)
- ANTH 346 Wealth, Power and Politics in Cross-Cultural Perspective (3)
- ANTH 351 Drugs in the Americas (3)
- ANTH 361 Controversies in Anthropology (3)
- ANTH 364 Religion, Magic and Witchcraft (3)
- ANTH 370-79 Topics in Anthropology (3) (must be approved by adviser)
- ANTH 470-79 Special Topics in Anthropology (3) (must be approved by adviser)
- ANTH 491 Internship in Anthropology I (3)

One of the following courses from another discipline not counted in any other category (3):

- COMM 379 Intercultural Communication (3)
- ECON 323 Comparative Economic Systems (3)
- ECON 325 Economic Development (3)
- GEOG 102 World Regional Geography (3)
- HIST 151 The World since 1945 (3)
- POSC 339 Comparative Political Systems (3)
- SOCI 300 Sociological Analysis (3)
- SOCI 320 Military Sociology (3)
- SOCI 323 Social Change (3)
- SOCI 327 Urban Sociology (3)
- SOCI 329 Demography (3)
- SOCI 331 Deviance and Organizations (3)
- SOCI 391 Research Methods (3)
- WMST 233 International Perspectives of Women (3)
- WMST 37x Feminist Ecology (3)

SOCIOLOGY CONCENTRATION

This concentration requires a minimum of 27 credits plus the Sociology/Anthropology Common Core. Select one of the following two Areas of Focus (A or B) to complete the Sociology Concentration.

A. Combined Sociology/Anthropology Area of Focus

One of the following three courses that was not taken in the Sociology/Anthropology Common Core (Honors students may take ANTH 210 instead of ANTH 207 but not both) (3):

- ANTH 207 Cultural Anthropology (3)
- ANTH 208 Human Evolution and Prehistory (3)
- ANTH 210 Honors Cultural Anthropology (3)

Both of the following courses (6):

- SOCI 381 Sociological Theory (3)
- SOCI 391 Research Methods (3)

One of the following courses (3):

- ANTH 37x Ethnographic Field Methods (3)
- SOCI 300 Sociological Analysis (3)

Plus five upper-level courses not taken in the Sociology/Anthropology Common Core, three in sociology and two in anthropology.

B. General Sociology Area of Focus

Complete two Theory and Methods courses (6 credits) and seven Content Area courses (at least 21 credits).

1. Theory and Methods Requirement (6)
 - SOCI 381 Sociological Theory (3)
 - SOCI 391 Research Methods (3)

2. Content Area Requirement (21 credits)

Select seven different courses (minimum 21 credits) from at least three of the following seven Content Areas. (Individual courses cannot be counted in more than one Content Area.)

a. Self, Social Interaction and the Life Course

- SOCI 301 The Family (3)
- SOCI 311 Individual and Society (3)
- SOCI 313 Introduction to Social Psychology (3)
- SOCI 329 Demography (3)
- SOCI 359 Social Gerontology (3)
- SOCI 367 Sociology of Death, Dying and Bereavement (3)
- SOCI 370-79 Topics in Sociology (3) (must be approved by adviser)
- SOCI 470-79 Special Topics in Sociology (3) (must be approved by adviser)

b. Social Differences and Inequalities

- ANTH 321 Gender in Cross-Cultural Perspective (3)
- ANTH 346 Wealth, Power and Politics in Cross-Cultural Perspective (3)
- ANTH 353 Latinas in the Americas (3)
- SOCI 241 Blacks in America: Myths and Reality (3)
- SOCI 243 Sociology of Race, Class and Gender (3)
- SOCI 333 Political Sociology (3)
- SOCI 341 Class, Status and Power (3)
- SOCI 343 Minority Groups (3)
- SOCI 348 Women and Crime (3)
- SOCI 370-79 Topics in Sociology (3) (must be approved by adviser)
- SOCI 470-79 Special Topics in Sociology (3) (must be approved by adviser)

c. Sociological Analysis and Application

- ANTH 37x Ethnographic Field Methods (3)
- SOCI 100 Using Information Effectively (3)
- SOCI 300 Sociological Analysis (3)
- SOCI 329 Demography (3)
- SOCI 331 Deviance and Organizations (3)
- SOCI 485 Seminar in Sociology (3)
- SOCI 491 Internship in Sociology I (3)
- SOCI 492 Internship in Sociology II (3)
- SOCI 495 Independent Research (4)
- SOCI 498 Readings in Sociology (Honors) (4)
- SOCI 499 Honors Thesis (3)

d. Social Deviance and Social Control

- SOCI 331 Deviance and Organizations (3)
- SOCI 333 Political Sociology (3)
- SOCI 349 Social Problems (3)
- SOCI 351 Deviant Behavior (3)
- SOCI 352 Community Corrections (3)
- SOCI 356 Prisons in America (3)
- SOCI 370-79 Topics in Sociology (3) (must be approved by adviser)
- SOCI 470-79 Special Topics in Sociology (3) (must be approved by adviser)

e. Crime and Law Enforcement

- SOCI 348 Women and Crime (3)
- SOCI 353 Theories of Crime (3)
- SOCI 354 Introduction to Criminal Justice (3)
- SOCI 355 Delinquency and Juvenile Justice (3)
- SOCI 383 Sociology of Law (3)
- SOCI 385 Police Administration (3)
- SOCI 387 Issues in Policing (3)
- SOCI 370-79 Topics in Sociology (3) (must be approved by adviser)
- SOCI 470-79 Special Topics in Sociology (3) (must be approved by adviser)

f. Social Problems and Social Practice

- ANTH 351 Drugs in the Americas (3)
- SOCI 241 Blacks in America: Myths and Reality (3)
- SOCI 307 Issues in Domestic Violence (3)
- SOCI 309 Issues in Campus Violence (3)
- SOCI 335 Medical Sociology (3)
- SOCI 343 Minority Groups (3)
- SOCI 349 Social Problems (3)
- SOCI 357 Social Welfare (3)
- SOCI 358 Interpersonal Violence (3)
- SOCI 370-79 Topics in Sociology (3) (must be approved by adviser)

- SOCI 470-79 Special Topics in Sociology (3) (must be approved by adviser)
- SOCI 491 Internship in Sociology I (3)

g. Social Organization and Change

- ANTH 346 Wealth, Power and Politics in Cross-Cultural Perspective (3)
- ANTH 368 Development and Industrialization in Cross-Cultural Perspective (3)
- SOCI 197 Honors Seminar in Community Power Analysis (3)
- SOCI 210 Sociology of Sport (3)
- SOCI 243 Sociology of Race, Class and Gender (3)
- SOCI 320 Military Sociology (3)
- SOCI 323 Social Change (3)
- SOCI 325 Crowds, Mobs and Riots (3)
- SOCI 327 Urban Sociology (3)
- SOCI 329 Demography (3)
- SOCI 331 Deviance and Organizations (3)
- SOCI 333 Political Sociology (3)
- SOCI 335 Medical Sociology (3)
- SOCI 343 Minority Groups (3)
- SOCI 370-79 Topics in Sociology (3) (must be approved by adviser)
- SOCI 470-79 Special Topics in Sociology (3) (must be approved by adviser)

TRANSFER CREDIT POLICY FOR ANTHROPOLOGY AND SOCIOLOGY CONCENTRATIONS

At least 21 of the total credits required for completion of the Sociology Concentration, and at least 21 of the total credits required for completion of the Anthropology Concentration, must be taken at Towson University.

CRIMINAL JUSTICE CONCENTRATION

The Criminal Justice Concentration is intended to provide students with an interest in criminology and the various aspects of the criminal justice system a broad-based liberal arts education. More specifically, this concentration is meant to provide a rich and sophisticated understanding of the relationship between liberty and order in a democracy, of the types and processes of social deviance that are part of society, and of the ways society exercises social control to maintain legal, moral and social order in society. In addition, it is intended to provide a foundation for training and professional programs in criminal justice that prepare students for careers in the many occupations in this field.

The Criminal Justice Concentration is an integrated curriculum that combines study in three general areas of the field: corrections, criminology and law enforcement. Although Criminal Justice students take courses in all three of these Areas of Focus, one is selected for somewhat more intensive study.

The Criminology Area of Focus has more theoretically and methodologically oriented courses that are a foundation for advanced study in Criminology, Criminal Justice, Law, or Sociology or for related fields or careers in crime analysis. The Corrections and Law Enforcement Areas of Focus are somewhat more applied or practice oriented. Corrections is relevant to the correctional system, probation, parole, social services, crisis intervention and related fields. Law Enforcement is relevant to police administration, policing and the legal profession. All three Areas of Focus offer a strong academic background for a wide variety of post-baccalaureate educational and career pursuits, which are not restricted to criminal justice. Students interested in crime analysis should take courses that enhance their computer and information processing skills and statistical and research methods knowledge, and if possible, take the Sociology Using Information Effectively course (SOCI 100) to meet the GenEd requirement in Category I.B. and one of the Sociology Advanced Composition courses, Sociological Analysis (SOCI 300) or Introduction to Criminal Justice (WRIT 354) to meet the GenEd requirement in Category I.D. (Introduction to Criminal Justice

does *not* meet the Advanced Composition requirement when it is taken as SOCI 354.) Students are encouraged to consult with a faculty adviser in Criminal Justice to discuss curricular options in relation to their objectives and goals. All students in Criminal Justice are encouraged to consider an internship and should talk to their adviser about their eligibility to pursue this option in the department through SOCI 491.

The Criminal Justice Concentration consists of a *total of 43 credits* (unless the statistics requirement is met by taking a 3-credit course instead of the 4-credit PSYC 212). All courses in Criminal Justice must be completed with a grade equivalent of 2.00 or higher. The Bachelor of Arts degree may be earned by students who add a foreign language to the major requirements. The language requirement can be met by completing the intermediate courses of modern language or the equivalent. Students who complete all requirements for the Criminal Justice Concentration in Sociology/Anthropology and other university requirements but do not meet the Bachelor of Arts requirements will earn a Bachelor of Science degree.

Criminal Justice Common Core (13 credits)

SOCI 101	Introduction to Sociology (3)
SOCI 353	Theories of Crime (3)
SOCI 354	Introduction to Criminal Justice (3)
	<i>or</i>
WRIT 354	Writing for Criminal Justice (3)
PSYC 212	Behavioral Statistics (4) or its equivalent

Areas of Focus (15 credits)

From the three Areas of Focus that follow: Choose three courses (9 credits) from one Area of Focus; one course from a second Area of Focus (3 credits); and one course from the third Area of Focus (3 credits). The same course cannot be counted in more than one Area of Focus.

A. Corrections Area of Focus

SOCI 307	Issues in Domestic Violence (3)
SOCI 309	Issues in Campus Violence (3)
SOCI 352	Community Corrections (3)
SOCI 356	Prisons in America (3)
SOCI 370-79	Topics in Sociology (3) (must be approved by adviser)
SOCI 470-79	Special Topics in Sociology (3) (must be approved by adviser)

B. Criminology Area of Focus

SOCI 348	Women and Crime (3)
SOCI 351	Deviant Behavior (3)
SOCI 355	Delinquency and Juvenile Justice (3)
SOCI 358	Interpersonal Violence (3)
SOCI 370-79	Topics in Sociology (3) (must be approved by adviser)
SOCI 391	Research Methods (3)
SOCI 470-79	Special Topics in Sociology (3) (must be approved by adviser)

C. Law Enforcement Area of Focus

SOCI 370-79	Topics in Sociology (3) (must be approved by adviser)
SOCI 383	Sociology of Law
SOCI 385	Police Administration
SOCI 387	Issues in Policing
SOCI 470-79	Special Topics in Sociology (3) (must be approved by adviser)

Sociology/Anthropology Electives (6 credits)

Students can take ANTH 209 or ANTH 211 but not both.

ANTH 209	Anthropology of American Culture (3)
ANTH 211	Honors Anthropology of American Culture (3)
ANTH 351	Drugs in the Americas (3)
SOCI 241	Blacks in America: Myths and Reality (3)
SOCI 300	Sociological Analysis (3)
SOCI 325	Crowds, Mobs and Riots (3)
SOCI 327	Urban Sociology (3)
SOCI 331	Deviance and Organizations (3)

SOCI 343	Minority Groups (3)
SOCI 349	Social Problems (3)
SOCI 491	Internship in Sociology I (3)
SOCI 495	Independent Research (3)

Outside Electives (9 credits in three different disciplines)

Other courses may be taken as outside electives with the adviser's approval.

COSC 111	Information and Technology for Business (3)
COSC 118	Information Processing on the Internet (3)
COSC 165	Visual Basic (3)
GEOG 391	Urban Systems (3)
GEOG 47x	Geography of Crime (3)
GEOG 47x	Social Applications of GIS (3)
HIST 364	Social History of the United States since 1865 (3)
HIST 368	The Bill of Rights and the Constitution: 1941 to Present (3)
HIST 375	The City in American History (3)
HIST 382	African-American History from the Mid-19th Century (3)
HLTH 208	Mental Health (3)
HLTH 221	Human Sexuality (3)
HLTH 405	Drugs in Our Culture (3)
POSC 209	Introduction to Law (3)
POSC 305	Urban Government and Politics (3)
POSC 375	Public Administration (3)
POSC 418	Constitutional Law (3)
POSC 47x	Women and the Law (3)
PSYC 350	Personality (3)
PSYC 361	Abnormal Psychology (3)
PSYC 404	Adolescent Psychology (3)

TRANSFER CREDIT POLICY FOR CRIMINAL JUSTICE CONCENTRATION

At least 24 of the total credits required toward completion of the Criminal Justice Concentration must be taken at Towson University.

SOCIOLOGY/ANTHROPOLOGY AND GEOGRAPHY DOUBLE MAJOR

Students interested in combining a Sociology or Anthropology Concentration with Geography in a double major should consult the Department of Sociology, Anthropology and Criminal Justice or the Department of Geography and Environmental Planning for more information about the value of the double major and its requirements. It is possible to choose a double major with a concentration in Anthropology or Sociology. The double major requires fewer credits than are required when each major is pursued separately. The Geography and Sociology/Anthropology double major with a concentration in Anthropology requires 57-58 credits, and the Geography and Sociology/Anthropology double major with a concentration in Sociology requires 66-67 credits.

MINOR IN SOCIOLOGY

The minor in Sociology consists of 24-25 credits of Sociology courses (including Statistics), at least 12 of which must be upper division, and at least 15 of which must be taken at Towson University.

Required Courses

SOCI 101	Introduction to Sociology (3)
SOCI 381	Sociological Theory (3)
SOCI 391	Research Methods (3)
MATH 231	Basic Statistics I (3) or its equivalent
	<i>or</i>
PSYC 212	Behavioral Statistics (4) or its equivalent
<i>Plus 12 additional credits in Sociology.</i>	

MINOR IN ANTHROPOLOGY

The minor in Anthropology consists of 24 credits of Anthropology courses; at least 12 of which must be upper division, and at least 15 of which must be taken at Towson University.

Required Courses

- ANTH 207 Cultural Anthropology (3)
 ANTH 208 Human Evolution and Prehistory (3)
 ANTH 401 Anthropological Theory (3)

Plus 15 additional credits in Anthropology.

INTERNSHIPS

Student internships can be pursued in each concentration offered by the department (SOCI 491 or 492 or ANTH 491 or 492). Internships provide students with opportunities to apply what they have learned in the classroom, allowing them to explore possible career avenues while adding valuable practical experience to their resumes. Students in the department have done internships in a variety of organizations and settings. A sample of specific recent internship sites includes the Baltimore County Forensic Services Division (Crime Lab); Hickey School (Juvenile Services); Department of Juvenile Services; Police Athletic League of Baltimore County; Immigration and Naturalization Service; Department of Alcohol, Tobacco and Firearms; Department of Natural Resources Police; Office of the Public Defender (Forensic Social Work Division); Maryland Chapter of the National Association of Social Workers; Prisoner's Aid; Keswick Adult Day Care; Manor Care of Ruxton; Sunrise (Assisted Living); Meridian at Brightwood (Senior Care); Church Home (Nursing); Baltimore Center for Urban Archaeology; Baltimore Museum of Art; Walters Arts Gallery; Baltimore County Department of Aging; Latino Health Task Force; Baltimore City Child Abuse Police Unit; Child Abuse Prevention and Education Center; ACTS (Shelter for Victims of Domestic Abuse); and St. Vincent Family Services. Students are encouraged to consider internships related to areas of interest in their concentration. Each year, the Lieberman Endowment provides an award to the best intern. Students participating in an internship are assessed a fee. Interested students should contact the department internship coordinator for more information.

HONORS AND OTHER STUDENT OPPORTUNITIES

Superior students are encouraged to consider taking the special set of courses that would qualify them for graduation with honors in the department. See the honors adviser, Professor Guy Sedlack, or the department chair, Professor Howard Nixon, for more information. The departmental honors program is distinct from the university sponsored honors program, which includes a number of honors courses in Sociology and Anthropology.

The Lieberman Award is presented annually to the most distinguished scholar in each of the three major concentrations in the department. The Mignon Lieberman Award is presented each year to the outstanding student intern. The Irwin Goldberg Endowment Award is given annually to the student who submits the paper best reflecting sociological research techniques. The paper may have been written for any Sociology course or as an independent research project. A chapter of Alpha Kappa Delta, the national honor society in Sociology, was established at the university in 1988. Majors can participate in independent research, internships and field experiences, as appropriate.

INFORMATION FOR STUDENTS IN DISCONTINUED CONCENTRATIONS

The department recently discontinued its concentrations in Gerontology and Corrections, and the Law Enforcement Concentration that was administered by the department also has been discontinued. In addition, the Sociology and Anthropology Concentrations were substantially revised in 1998. Students who declared one or more of these concentrations prior to their elimination will be permitted to select from the new or revised concentrations currently offered by the department or to complete their original concentration, provided their original catalogs have not expired. All students are encouraged to work closely with a departmental adviser to plan their curriculum. Students entering Towson University during or after fall 1999 will *not* be permitted to select curricular options from catalogs prior to the 1999-2000 *Undergraduate Catalog*.

Interdisciplinary Program in Women's Studies

Professors: Karen Dugger, Jo-Ann Pilardi (*Director*)

Assistant Professor: Esther Wangari

Affiliated Faculty: Lena Ampadu (*English*), Allaire Brumfield (*History*), Rose Ann Christian (*Philosophy and Religious Studies*), Marion Cockey (*Sociology, Anthropology and Criminal Justice*), K Edgington (*English*), Paz Galupo (*Psychology*), Gail Gasparich (*Biological Sciences*), Cindy Gissendanner (*History*), John Gissendanner (*English*), Susan Isaacs (*Art*), Louise Laurence (*Economics*), Luz Mangurian (*Biological Sciences*), Toni Marzotto (*Political Science*), Florence Newman (*English*), Kathleen Pierson (*Music*), Carol Pippen (*English*), Joan Rabin (*Psychology*), Patricia Romero (*History*), Frances Rothstein (*Sociology, Anthropology and Criminal Justice*), Lev Ryzhkov (*Chemistry*), Lisa Swanson (*Kinesiology*), Jacqueline Wilkottz (*English*), Sabrina Willis (*Political Science*)

Part-time Faculty: Helen Beckstrom, Susan Doering, Elke Heckner, Heather Kelley, Dorothy Roome, Beverly Shuman, Linda Stone

Associates to Women's Studies Program: Leah Schofield (*Director, Women's Center*), Kathryn Sullivan (*Library Liaison*), Beth Vanfossen (*Director, Institute for Teaching and Research on Women*)

OFFICE

Linthicum Hall 201F, 410-830-2660

THE PROGRAM

The Women's Studies major is an interdisciplinary program that offers students the opportunity to study the status and roles of women as individuals and as members of society. Courses emphasize both commonalities among women and differences according to race, ethnicity, class and sexual preference. The major consists of 6 hours of required core courses (Section A), plus 33 hours selected from sections B-E as shown below. Each program is individually tailored to the needs and interests of students. Students must consult with a Women's Studies faculty adviser to plan their programs. (See transfer credit policy.)

The following interdisciplinary and departmental women's studies courses are currently in the curriculum. The departmental courses may be taken as electives for departmental credit and/or applied to the major or minor in Women's Studies. Some courses fulfill General Education (GenEd) requirements.

MAJOR IN WOMEN'S STUDIES

Women's Studies majors are required to complete 39 credits with a grade equivalent of 2.00 or higher from among the following courses.

Section A: Required Core Courses (6 credits)

WMST 231	Women in Perspective (3)
	or
WMST 232	Honors Seminar: Women in Perspective (3)
	or
WMST 233	International Perspectives on Women (3)
	or
WMST 234	Honors Seminar: International Perspectives on Women (3)
	and
WMST 337	Feminism (3)

Section B: Multiculturalism and Diversity (6 credits)

WMST 233	International Perspectives on Women (3) (*cannot be used here if used in Section A)
WMST 370	Topics in Women's Studies: Women of Color (3)
ANTH 321	Gender in Cross-Cultural Perspective (3)
ANTH 353	Latinas in the Americas (3)
ENGL 347	World Literature: African Women Writers (3)
ENGL 477	Topics in Black American Literature: African-American Women Writers (3)
HIST 361	Gays and Lesbians in U.S. History (3)
HIST 484	Life Histories of African Women (3)
PHIL 205	Women in World Religions (3)
PSYC 449	Psychology of Lesbian Culture (3)

Section C: Science: Natural; Social (9 credits)

WMST 339	Reproductive Technologies and the Future of Motherhood (3)
BIOL 321	Biology of Women (3)
ECON 374	Economic Issues of Gender (3)
HLTH 101	Wellness for a Diverse Society * Special Topics on Women (3)
HLTH 440	Perspectives on Rape and Sexual Assault (3)
IDNM 307	Women, Gender and Science (3)
IDNM 309	Women, Society and Radiation (3)
KNES 441	The American Woman in Sport (3)
POSC 47x	Special Topics: Women and Law (3)
PSYC 447	Sex Differences: Psychological Perspectives (3)
PSYC 457	Gender Identity in Transition (3)
PSYC 47x	Special Topics: Psychology of Women (3)
SOCI 348	Women and Crime (3)

Section D: Arts and Humanities (6 credits)

ARTH 341	Women in Art (3)
EMF 205	Women and Gender in Film (3)
ENGL 290	Honors Seminar in Literature: Emily Dickinson (3)
ENGL 290	Honors Seminar in Literature: Austen and the Brontes (3)
ENGL 370	Special Topics: Literature of Women (3)
ENGL 371	Women Poets: Themes and Images (3)
ENGL 372	Women Writers (3)
ENGL 471	Topics in World Literature: African American Writers (3)
ENGL 471	Topics in World Literature: Black Women Writers (3)
ENGL 472	Topics in British Literature: Virginia Woolf (3)
HIST 306	Women in 20th Century U.S. History (3)
HIST 484	Historical Themes: Women in Ancient Greece (3)
PHIL 332	Feminist Philosophy (3)
PHIL 38x	Philosophical Topics: Simone de Beauvoir (3)

Section E: Interdisciplinary Women's Studies Courses

(12 credits)

WMST 332	Women's Culture and Creativity (3)
WMST 333	Women's Words, Women's Lives (3) (GenEd. I.D.)
WMST 335	Women, Work and Family (3)
WMST 336	Women and Medicine (3)
WMST 338	Women and Sexuality (3)
WMST 341	Women and Aging (3)
WMST 370	Topics in Women's Studies: Bodywork/Body Image (3)
WMST 370	Topics in Women's Studies: Inventing the Self (3)
WMST 370	Topics in Women's Studies: Women, Learning and Knowledge (3)
WMST 370	Topics in Women's Studies: Women and Development (3)
WMST 370	Topics in Women's Studies: Women, the Environment and Health (3)
WMST 485	Seminar in Women's Studies (for 3 credits only)
WMST 496	Internship in Women's Studies (for 3 credits only)

Note: content varies in WMST 370 and WMST 485. Depending on content, these course numbers may fulfill credits for other lettered sections.

MINOR IN WOMEN'S STUDIES

Students may wish to major in a traditional subject (history, English, sociology) but minor in Women's Studies. Some students plan to do graduate work in a traditional discipline, with emphasis on women within it.

*Requirements for the Minor (21 credits)***Section A: Required Core Courses (6 credits)**

- WMST 231 Women in Perspective (3)
 or
 WMST 232 Honors Seminar: Women in Perspective (3)
 or
 WMST 233 International Perspectives on Women (3)
 or
 WMST 234 Honors Seminar: International Perspectives on Women (3)
 and
 WMST 337 Feminism (3)

Section B: Multiculturalism and Diversity (3 credits)**Section C: Science: Natural; Social (3 credits)****Section D: Arts and Humanities (3 credits)****Section E: Interdisciplinary Women's Studies (6 credits)****TRANSFER CREDIT POLICY**

All Women's Studies majors must complete a minimum of 18 credits toward the major at Towson University, with at least 12 credits at the upper (300-400) level.

All Women's Studies minors must complete a minimum of 12 credits toward the minor at Towson University, with at least 9 credits at the upper level.

HONORS PROGRAM AND OTHER ACTIVITIES

Honors work is available to students with a Women's Studies major. Interested students may consult the Women's Studies director for information, preferably during their sophomore year. See information on Honors College elsewhere in this catalog.

The Women's Studies Program also provides a Women's Studies Colloquium series each semester with speakers from the university or off campus.

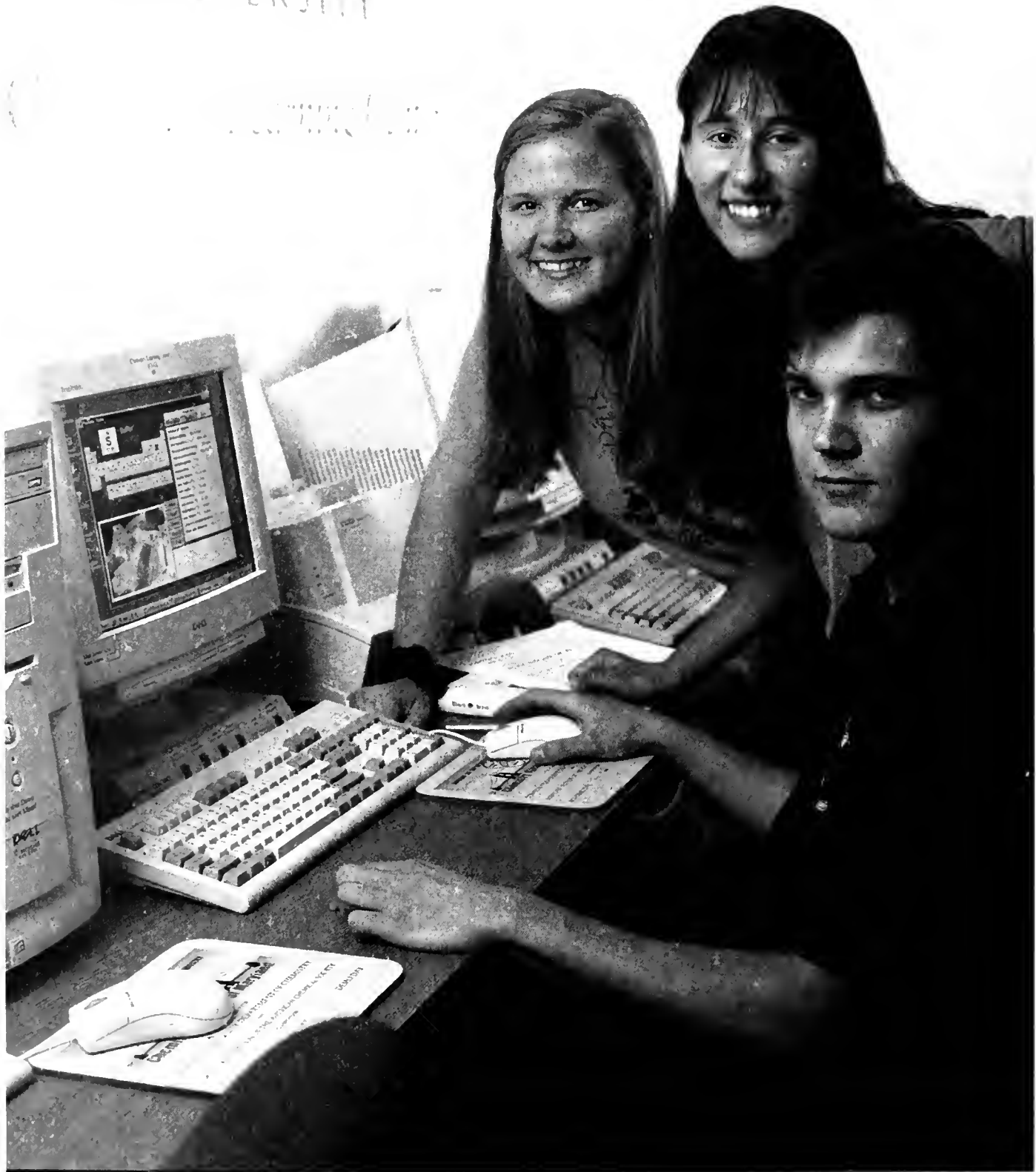
Women's Studies students are also welcome to participate in the Feminist Collective, a student organization.

In alternate years, the Women's Studies Program awards the Guess Scholarship for achievement in writing. It also participates in the Presidential Scholarship Program.





UNIVERSITY





The College of Science and Mathematics

Welcome to the College of Science and Mathematics at Towson University. Our college offers a wide variety of undergraduate and graduate majors, as well as interdisciplinary programs where students work closely with faculty, receiving quality instruction in small class sizes.

Science is becoming increasingly important as our world evolves and is challenged by rapid technological transformations. More and more, science will determine the road into the future. The College of Science and Mathematics at Towson University is helping to build that road through its educational programs and its commitment to teaching, research and scholarship. The College of Science and Mathematics has a fourfold mission: to prepare students for careers and advanced professional training in the biological or physical sciences, mathematics, or computer science; to participate fully in the liberal education mission of the campus; to foster significant scholarly research; and to serve the well-being of the community, state and region. To accomplish its mission the college maintains high standards of performance for faculty and students. Each student is provided the opportunity to develop competence in a special field of knowledge by learning its principles and perspectives, mastering its methods, and acquiring much of its accumulated knowledge.

In addition to offering formal course work, the college is committed to providing students with opportunities to learn through participation in scientific research, independent study, internships and honors programs. Students gain experience in laboratories, interact with the environment through field studies, conduct student research, and receive training in technologically advanced instrumentation. We believe that there is no stronger means of learning than by active participation at the frontiers of scientific knowledge, and we encourage our entire faculty to leave open their doors so that students may embrace the discovery of the secrets in the world around us. A combination of student participation and rigorous classroom instruction gives majors in the college a competitive advantage in career advancement or in the selection of professional or graduate schools. The student majoring outside the college is assured of adequate scientific knowledge to make informed decisions essential to citizens in a science-oriented, technological world.

Although we offer degrees in the sciences and mathematics, we recognize that the Towson experience encompasses so much more than a diploma. Each one of us strives daily to create enriching educational experiences for all of those around us. We recognize the importance of science and mathematics not merely as an aid to understanding the natural world, but also as an aid to understanding ourselves. Each person can benefit greatly from scientific experience, and it is this sort of experience that we seek to provide our students. Come and join us. Towson will enrich your life.

Gerald W. Intemann, Dean

Biology
Chemistry
Computer Science
Computer Information Systems
Environmental Science and Studies
Geosciences
Mathematics
Molecular Biology, Biochemistry and Bioinformatics
Physics
"4+1" B.S. Physics/M.S. Computer Science
Dual-Degree Engineering Program
Dual-Degree Medicinal Chemistry Program
Pre-dentistry
Pre-medicine
Pre-pharmacy
Pre-physical Therapy
Pre-veterinary Medicine

COLLEGE OFFICE
Smith Hall 312, 410-830-2121
Fax: 410-830-2604
E-mail: csm@towson.edu
www.towson.edu/csm

Interdisciplinary Studies

ANIMAL BEHAVIOR TRACK

Advisory Committee: Michael Figler (*Psychology*), Donald Forester (*Biological Sciences*), Paz Galupo (*Psychology*, Co-Coordinator), Craig Johnson (*Psychology*), Scott Johnson (*Biological Sciences*), Jay Nelson (*Biological Sciences*), Herbert Petri (*Psychology*), Joan Rabin (*Psychology*), Gerald Robinson (*Biological Sciences*), Aubrey Scarbrough (*Biological Sciences*), Erik Scully (*Biological Sciences*, Co-Coordinator)

OFFICE

Smith Hall 261, 410-830-3012

The Program

Animal Behavior is offered as a track within the Interdisciplinary Studies major. For a complete description of course requirements, see the College of Liberal Arts.

The study of animal behavior has received an increasing amount of attention from the public because of the emphasis placed by zoological parks on behavioral biology and the large number of presentations in the media regarding animal behavior and sociobiology.

The Animal Behavior Track is designed to offer a solid foundation in the diverse approaches used to study behavioral biology. The program uses a carefully selected combination of courses in biology and psychology to achieve this goal. In addition, students are required to complete either an independent research project or an internship in order to apply their knowledge in an intensive research experience.

Students who complete the program may be qualified for positions at zoological parks, aquariums and nature centers. In addition, they will have the necessary technical knowledge to pursue a career in free-lance writing about animal behavior. However, students who are considering attending graduate school will need to complete additional courses in either biology or psychology. Most of the students currently enrolled in the program also are majoring in either Biology or Psychology.

Students who are considering the Animal Behavior Track must meet with one of the program coordinators before declaring Interdisciplinary Studies as a major.

Center for Science and Mathematics Education (CSME)

OFFICE

Smith Hall 304

Phone: 410-830-2532

Fax: 410-830-3959

E-mail: kdenniston@towson.edu

Director: Katherine J. Denniston

The Center for Science and Mathematics Education (CSME) is a focal point for research efforts, curriculum development, teacher education, and pedagogical reform designed to enhance the teaching and learning of mathematics, science and technology from K-16. Representatives of each of the departments of the College of Science and Mathematics and the College of Education serve as affiliate faculty. Advisory board members representing local schools, universities, agencies of informal education, business, and the Maryland State Department of Education provide counsel in guiding center activities.

CSME is the headquarters of the Maryland Collaborative for Teacher Preparation (MCTP), a National-Science-Foundation-supported statewide program of innovative approaches to the preparation of science and mathematics teachers for the upper elementary and middle school grades. Faculty from 10 University System of Maryland institutions, five community colleges, and the largest Maryland school systems are involved in MCTP. CSME is also the center of operations for the Maryland Educator's Summer Research Program, a summer internship program that offers authentic research experiences in science and mathematics for in-service teachers and teachers in training. CSME organizes and operates The Maryland Governor's Academy for Mathematics and Science, a three-week residential program that provides selected Maryland teachers with workshops on the implementation of reform- and standards-based science and mathematics education.

The primary goal of CSME is to promote excellent and effective science and mathematics teaching at all levels from K-16. To that end, the center is engaged in the following activities:

1. Foster initiatives for improvement of teacher education
2. Initiate and establish professional development schools to promote professional growth of in-service teachers
3. Disseminate ideas on curriculum and instruction in science, mathematics and technology at grade levels K-16
4. Oversee the Sciences and Mathematics Track of the Elementary Education major
5. Assist area schools, community agencies, and university departments in selection, implementation, and assessment of innovative approaches to the teaching and learning of science, mathematics and technology
6. Coordinate communication and collaboration among universities, community colleges and schools

Department of Biological Sciences

Professors: Virginia Anderson, Katherine Denniston, Donald Forester, James Hull, Luz Mangurian, Gerald Robinson, Aubrey Scarbrough, Robert Shoemaker, Donald Windler
Associate Professors: Richard Hilton, Brian Masters, Jay Nelson, Erik Scully, Jane Wolfson, Daniel Wubah (*Chair*)
Assistant Professors: Carol Berkower, Gail Gasparich, Susan Gresens, L. Scott Johnson, William Mechling, Robin Sandlin, Vonnie Shields, Erik Silldorff, Joel Snodgrass, Laurie Williams-Hogarth, Larry Wimmers
Visiting Assistant Professor: Carl Kloock
Adjunct Research Professors: Steven Baskin, Alan Brimfield, David Lenz, John McDonough, John Petrali, James Romano, Jr., John Schlager, Alfred Sciuto, Tsung-Ming Shih, William Smith, Jay Valdes
Lecturers: Susannah Feldman, Sarah Bruce
Part-time Faculty: Linda Behrens, Christine Conn, Pamela Healey, Lynn Middleton, Elsie Shoemaker, Bernadette Stundick
Undergraduate Biology Student Coordinator: Mara Lauterbach

OFFICE

Smith Hall 341, 410-830-3042
 Fax 410-830-2405

PROGRAMS OF THE DEPARTMENT

The Department of Biological Sciences offers the following programs of study: the major in Biology, the minor in Biology, and the Master of Science in Biology. For more information about the master's program, consult the *Graduate Catalog*.

A major in Biology is recommended for students interested in pursuing general careers in botany, zoology, ecology, microbiology or molecular biology. It is also recommended for individuals preparing for graduate studies in biology, medicine, dentistry, or medically oriented fields; including optometry, pharmacy, podiatry or veterinary science; teacher education in secondary schools, i.e., teaching of biological or natural sciences; basic or applied research in the biological sciences; or environmental biology, including conservation, wildlife biology, forestry, fisheries, pollution control and marine biology.

Students selecting this major should contact the department to be assigned an adviser to assist them in designing a program to meet their special needs. Students will meet with their adviser each semester to discuss their progress and to facilitate necessary changes in their programs of study.

MAJOR IN BIOLOGY

The Biology major requires a total of 40 Biology credits with a grade equivalent of 2.00 or higher; 21 credits in core courses and 19 credits in electives. Additionally, 21-30 credits with a grade equivalent of 2.00 or higher are required in ancillary courses.

Selection of appropriate electives allows students to fulfill the requirements in any of eight areas of specialty: Animal Anatomy and Physiology, Botany, Ecology, Marine Biology, Microbiology, Premedicine/Pre dentistry, Secondary School Biology and General Science Teaching, and Zoology. Completion of a concentration is not required to graduate with a Biology major.

Core Courses (21 credits)

BIOL 201 Biology I: Cellular Biology and Genetics* (4)
 BIOL 202 Biology II: Introduction to Ecology, Evolution and Behavior (4)
 BIOL 205 General Botany (4)
 BIOL 207 General Zoology (4)
 BIOL 309 Principles of Genetics (4)
 BIOL 486 Biology Majors Seminar (1)

*BIOL 110 or 112 with a grade equivalent of 3.00 or higher also fulfills this requirement.

Electives (19 credits)

Biology majors are required to complete a minimum of 19 credit hours of elective courses in Biology. This requirement may be fulfilled by following one of two options:

Option I students may select their own electives from offerings within the department (see exceptions noted below). Option II students may select a series of courses recommended within concentrations developed by the department, and at the request of students, completion of a concentration will be noted on their transcript. Regardless of the option chosen, students must work closely with a faculty adviser in the development of a program of study.

No more than 3 credits combined from BIOL 491, Independent Research in Biology; BIOL 494, Travel Study; BIOL 498, Honors Research; and BIOL 499, Senior Thesis in Biology, may count toward the Biology major.

The following courses may not be used to fulfill Biology elective requirements for the major in either Option I or Option II: BIOL 100, Humanistic Botany; BIOL 103, Human Biology; BIOL 105, Environmental Biology; BIOL 115, Biological Science I; BIOL 116, Biological Science II; BIOL 215, Foundations of Microbiology; BIOL 301, Field Natural Science; BIOL 303, Life Science for the Elementary Teacher; BIOL 381, Biological Literature; BIOL 481, Directed Readings in Biology; BIOL 493, Internship in Biology; BIOL 495, Course Research.

Before enrolling in any 300- or 400-level elective course, Biology majors are required to complete a minimum of 12 credit hours in lower-level Biology courses, and complete these courses with a grade equivalent of 2.00 or higher. In addition, for any elective course, students must have completed all prerequisite courses with a grade equivalent of 2.00 or higher and have an overall QPA of 2.00 or higher. Students who do not meet the above requirements may not be allowed to enroll in upper-level electives.

The Department of Biological Sciences makes every effort to offer elective courses in a systematic fashion. However, it assumes no responsibility for cases in which unforeseen scheduling conflicts, course cancellations, or staffing changes prevent students from taking a particular elective course during their residence at Towson University.

Ancillary Courses (21-30 credits)

Option I students must select from the following courses in chemistry, physics and mathematics:

Chemistry (13-18 credits)

CHEM 110-111 General Chemistry I, II (4, 4)
 CHEM 330 Essentials of Organic Chemistry* (5)
 or
 CHEM 331-332 Organic Chemistry I, II (5, 5)

Physics (5-8 credits)

PHYS 203 Topics in Physics for Biology Majors* (5)
 or
 PHYS 211-212 General Physics I, II (4, 4)**

Mathematics (3-4 credits)***

One of the following:

MATH 211 Calculus for Applications (3)
 MATH 237 Elementary Biostatistics (4)
 MATH 273 Calculus (4)
 PSYC 212 Behavioral Statistics (4)

In addition, a computer science course is strongly recommended.

NOTE: *Graduate schools often require two semester courses in these subjects.

**In all subsequent concentrations and course prerequisites, PHYS 241-242 may be substituted for PHYS 211-212.

***Because material covered in Basic Mathematics for the Sciences (MATH 115) is prerequisite for Chemistry and Physics, students who have not completed high school trigonometry and two years of high school algebra in good standing should take MATH 115 in addition to one of the options listed above.

Option II students must complete a specified group of ancillary courses within a concentration.

In both options, General Chemistry should be taken during the freshman year; Organic Chemistry during the sophomore year; and Physics as soon as possible.

ANIMAL ANATOMY AND PHYSIOLOGY CONCENTRATION

Students completing this concentration will be prepared for advanced study in anatomy and physiology or vocations requiring proficiency in these areas.

Biology Core (20 credits)

Electives (19 credits)

BIOL 213-214 Human Anatomy and Physiology I, II (4, 4)

Select three from the following, at least one of which must be BIOL 465 or BIOL 469:

- BIOL 360 Histology (4)
- BIOL 367 Endocrinology (3)
- BIOL 408 Cell Biology (4)
- BIOL 463 Animal Embryology (4)
- BIOL 465 Mammalian Physiology (4)
- BIOL 469 Comparative Animal Physiology (4)

Biology electives, if needed to complete the required 19 credits (see recommendations)

Ancillary Courses (21-30 credits)

As in Biology Major Option I

Recommended Courses

- BIOL 318 Microbiology (4)
- BIOL 355 Animal Parasitology (4)
- BIOL 427 Neuromuscular Mechanisms of the Upper Body (2)
- CHEM 351 Introductory Biochemistry (3)
- CHEM 356 Biochemistry Laboratory (2)

BOTANY CONCENTRATION

Background acquired in this concentration will train graduates for positions in botanically related industry or advanced study in botany, horticulture or forestry.

Biology Core (20 credits)

Electives (20 credits)

A minimum of 20 credits from the following courses, of which one must be from Group A, two from Group B, and the remainder from Groups A, B and C:

Group A

- BIOL 436 Plant Physiology (4)
- BIOL 439 Plant Anatomy (4)

Group B

- BIOL 331 Plant Morphology (4)
- BIOL 341 Fresh Water Algae (4)
- BIOL 345 Mycology (4)
- BIOL 349 Marine Botany (4)
- BIOL 432 Vascular Plant Taxonomy (4)

Group C

- BIOL 305 Electron Microscopy (4)
- BIOL 335 Economic Botany (3)
- BIOL 431 Horticulture (4)
- BIOL 435 Plant Ecology (4)

Ancillary Courses (21-30 credits)

As in Biology Major Option I

Recommended Courses

- CHEM 351 Introductory Biochemistry (3)
- CHEM 356 Biochemistry Laboratory (2)

ECOLOGY CONCENTRATION

Completion of this concentration provides background for advanced study in ecology and career opportunities in environmental education, government environmental regulatory agencies and the private sector.

Biology Core (20 credits)

Electives (19-20 credits)

A minimum of 19 credits from the following courses with at least one course selected from each of Group A, Group B, Group C and Group D:

Group A

- BIOL 402 General Ecology (4)
- BIOL 435 Plant Ecology (4)

Group B

- BIOL 325 Environmental Animal Physiology (4)
- BIOL 436 Plant Physiology (4)
- BIOL 469 Comparative Animal Physiology (4)

Group C

- BIOL 331 Plant Morphology (4)
- BIOL 341 Fresh Water Algae (4)
- BIOL 345 Mycology (4)
- BIOL 349 Marine Botany (4)
- BIOL 432 Vascular Plant Taxonomy (4)

Group D

- BIOL 310 Environmental Conservation (4)
- BIOL 347 Marine Biology (3)
- BIOL 351 Field and Systematic Vertebrate Zoology (4)
- BIOL 353 Invertebrate Zoology (4)
- BIOL 371 Animal Behavior (4)
- BIOL 404 Ecological Techniques (3)
- BIOL 406 Limnology (4)
- BIOL 411 Wildlife Biology (3)
- BIOL 413 Evolution (3)
- BIOL 456 Ornithology (4)
- BIOL 458 Mammalogy (4)
- BIOL 461 Entomology (4)
- BIOL 467 Herpetology (4)

Ancillary Courses (22-30 credits)

Chemistry and Physics requirements as in the Biology Major Option I and one of the following.

- MATH 237 Elementary Biostatistics (4)
- or
- PSYC 212 Behavioral Statistics (4)

Recommended Courses

- MATH 273 Calculus (4)
- or
- MATH 211 Calculus for Applications (3)
- CHEM 351 Introductory Biochemistry (3)
- CHEM 356 Biochemistry Laboratory (2)

MARINE BIOLOGY TRACK

This track provides background for advanced study in the marine sciences. It also offers training appropriate for careers in private or public agencies that are concerned with aquatic environments.

Biology Core (20 credits)

Electives (19-22 credits)

Required Biology Elective

- BIOL 347 Marine Biology (3)

A minimum of four courses selected from the following:

- BIOL 349 Marine Botany (4)
- BIOL 351 Field and Systematic Vertebrate Zoology (4)
- BIOL 353 Invertebrate Zoology (4)
- BIOL 389 Current Developments in Biology (3)*
- BIOL 406 Limnology (4)

Recommended Marine Experience (3-4)**

*When focusing on a marine-related topic

**An intensive field and/or laboratory experience in the area of Marine Biology; credit will be granted for BIOL 491, or BIOL 494, or transfer credit from the sponsoring institution. The department has a current list of approved courses and programs. All experiences must be approved in advance.

Ancillary Courses (21-30 credits)

As in Biology Major Option I

Recommended Courses

BIOL 402	General Ecology (4)
BIOL 436	Plant Physiology (4)
BIOL 469	Comparative Animal Physiology (4)
BIOL 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)
PHSC 121	Physical Geology (4)
PHSC 123	Historical Geology (3)
PHSC 357	Physical Oceanography (4)
PHSC 443	Sedimentology and Sedimentary Petrology (3)

MICROBIOLOGY CONCENTRATION

This concentration will provide knowledge of the characteristics of microorganisms and the laboratory skills necessary for isolation, cultivation, and identification of microorganisms and the evaluation of microbiological data. Careers in microbiology are available in food technology, pharmaceutical production, fermentation industries, agriculture, medical laboratories, water quality control and basic research. Completion of this concentration will qualify students for registry as microbiologists with the Federal Civil Service and the American Academy of Microbiology.

Biology Core (20 credits)**Electives (20 credits)**

BIOL 315	Medical Microbiology (4)
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or

BIOL 318	Microbiology (4)
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A minimum of 16 credits selected from the following:

BIOL 305	Electron Microscopy (4)
BIOL 341	Freshwater Algae (4)
BIOL 345	Mycology (4)
BIOL 355	Animal Parasitology (4)
BIOL 403	Advanced Genetics (3)
BIOL 408	Cell Biology (4)
BIOL 421	Immunology (4)
BIOL 428	Virology (3)
BIOL 485	Seminar in Microbiology and Cell Biology (1)

Ancillary Courses (27-35 credits)

CHEM 110-111	General Chemistry I, II (4, 4)
CHEM 210	Principles and Methods of Chemical Analysis (4)
CHEM 330	Essentials of Organic Chemistry (5)
	or
CHEM 331-332	Organic Chemistry I, II (5, 5)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)
PHYS 203	Topics in Physics for Biology Majors (5)
	or
PHYS 211-212	General Physics I, II (4, 4)
MATH 211	Calculus for Applications (3)
	or
MATH 273	Calculus (4)

Recommended Courses

BIOL 213-214	Human Anatomy and Physiology I, II (4, 4)
BIOL 311	Functional Anatomy of Humans (4)
HLTH 311	Chronic and Communicable Disease (3)
MATH 237	Elementary Biostatistics (4)
CHEM 341	Physical Chemistry—Thermodynamics (3)
CHEM 342	Physical Chemistry—Structure and Kinetics (3)

PREMEDICINE/PREDENTISTRY CONCENTRATION

Students planning to enter medical or dental school should select this concentration. It is also recommended for those interested in medically related fields, such as osteopathy, podiatry and optometry.

Biology Core (20 credits)**Electives (19-20 credits)**

BIOL 213-214	Human Anatomy and Physiology I, II (4, 4)
BIOL 408	Cell Biology (4)

A minimum of two of the following:

BIOL 360	Histology (4)
BIOL 367	Endocrinology (3)
BIOL 463	Animal Embryology (4)
BIOL 465	Mammalian Physiology (4)

Ancillary Courses (29-30 credits)

CHEM 110-111	General Chemistry I, II (4, 4)
CHEM 331-332	Organic Chemistry I, II (5, 5)
PHYS 211-212	General Physics I, II (4, 4)

Math requirement as in Biology Major Option I

Recommended Courses

BIOL 315	Medical Microbiology (4)
CHEM 351	Introductory Biochemistry (3)
CHEM 356	Biochemistry Laboratory (2)

SECONDARY SCHOOL BIOLOGY AND GENERAL SCIENCE TEACHING CONCENTRATION

Students who complete this concentration and the required courses in the Department of Secondary Education will meet certification requirements to teach secondary school biology and general science in at least 33 states, including Maryland. Students must register with the Department of Secondary Education and should have an adviser in that department in addition to their adviser in the Department of Biological Sciences. Students should consult the Department of Secondary Education regarding any recent changes in certification requirements.

Students with bachelor's degrees who desire to become certified to teach either Biology or General Science in Maryland or other states should first contact the Department of Secondary Education for advising in a Professional Education Program and then contact the Department of Biological Sciences for an adviser.

Biology Core (20 credits)**Electives (19-20 credits)**

BIOL 213-214	Human Anatomy and Physiology I, II (4, 4)
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Biology electives to complete 19 credits as approved by adviser

Ancillary Courses (28-29 credits)

CHEM 110-111	General Chemistry I, II (4, 4)
CHEM 330	Essentials of Organic Chemistry (5)
PHYS 211-212	General Physics I, II (4, 4)

One of the following:

MATH 211	Calculus for Applications (3)
MATH 273	Calculus (4)

One of the following:

PHSC 121	Physical Geology (4)
PHSC 123	Historical Geology (3)
PHSC 161	General Astronomy I (3)
PHSC 357	Physical Oceanography (4)
GEOG 373	Climatology (4)
GEOG 377	Descriptive Meteorology (4)

Recommended Courses

BIOL 315	Medical Microbiology (4)
BIOL 318	Microbiology (4)
BIOL 461	Entomology (4)

ZOOLOGY CONCENTRATION

This concentration is recommended for individuals preparing for careers and/or advanced study in vertebrate zoology, invertebrate zoology, entomology, wildlife biology or fisheries biology.

Biology Core (20 credits)**Electives (19-20 credits)**

BIOL 469 Comparative Animal Physiology (4)

In addition, a minimum of four courses from the following, at least one of which must be selected from Group A and one from Group B:

Group A

BIOL 371 Animal Behavior (4)
 BIOL 402 General Ecology (4)
 BIOL 411 Wildlife Biology (4)
 BIOL 413 Evolution (3)

Group B

BIOL 351 Field and Systematic Vertebrate Zoology (4)
 BIOL 353 Invertebrate Zoology (4)
 BIOL 355 Animal Parasitology (4)
 BIOL 456 Ornithology (4)
 BIOL 458 Mammalogy (4)
 BIOL 461 Entomology (4)
 BIOL 467 Herpetology (4)

Ancillary Courses (22-30 credits)

Chemistry and Physics requirements as in Biology Major Option I

One of the following:

MATH 237 Elementary Biostatistics (4)
 or
 PSYC 212 Behavioral Statistics (4)

Recommended Courses

MATH 211 Calculus for Applications (3)
 or
 MATH 273 Calculus (4)
 CHEM 351 Introductory Biochemistry (3)
 CHEM 356 Biochemistry Laboratory (2)

MINOR IN BIOLOGY

To fulfill the requirements for a Biology minor, students must complete the following courses. A minimum of 12 hours of the biology credits applied toward the minor must be earned at Towson University.

Biology Requirements (24 credits)

BIOL 110 Contemporary General Biology (4)
 BIOL 205 General Botany (4)
 BIOL 207 General Zoology (4)
 BIOL xxx Upper-division Biology Courses (12)

The following courses MAY NOT be used to fulfill this requirement: BIOL 301, Field Natural Science; BIOL 303, Life Science for the Elementary Teacher; BIOL 381, Biological Literature; BIOL 481, Directed Readings in Biology; BIOL 491, Independent Research; BIOL 493, Internship in Biology; BIOL 494, Travel Study; BIOL 495, Course Research.

Ancillary Courses (8 credits)

CHEM 110-111 General Chemistry I, II (4, 4)

TRANSFER CREDIT POLICY

All Biology majors must complete a minimum of 19 Biology credits toward the major at Towson University, with at least 10 of these credits at the upper (300-400) level.

All Biology minors must complete a minimum of 12 Biology credits toward the minor at Towson University, with at least 6 of these credits at the upper level.

HONORS PROGRAM

To graduate with honors in Biology, students must complete BIOL 498 and BIOL 499 in consecutive semesters of their senior year. The research thesis must be presented in an oral defense before the Honors Research Committee. An oral presentation open to the public is also required. In addition, a minimum of 3 credit hours must be selected from BIOL 491 and/or BIOL 481 in the junior year. For eligibility and general information, consult the College Honors Program description.

INTERNSHIP/COOPERATIVE EDUCATION

The department participates in the university's cooperative education program, which provides junior- and senior-level students of high academic standing practical work experience while earning college credit. Students have served as interns at such facilities as the National Aquarium and the Smithsonian Institution. For further information, contact the Career Center.

STUDENT ORGANIZATIONS

The Biology Club, the Premed/Preudent Club, the Animal Behavior Club, and the local chapter of Beta Beta Beta, the national honor society in biology, are active organizations composed of and led by students. Among the events organized by members of the Biology Club are field trips, which are designed to enhance participants' knowledge of the biological sciences, and athletic and social events, which provide opportunities for student and faculty interaction in an informal atmosphere. Tri Beta, whose members have achieved high scholarship, functions primarily to encourage and provide for the academic growth of its members.

GRADUATE PROGRAM

The course of study leading to the Master of Science in Biology is designed to provide greater knowledge and understanding of biology and to help students develop a proficiency in independent thought, inquiry and research. Students may pursue either the Thesis Program (30 credits and a thesis) or the Non-Thesis Program (36 credits). Detailed information regarding both programs is given in the *Graduate Catalog*.

DEPARTMENT ANIMAL POLICY

In accordance with federal laws and regulations, Towson University, through its Institutional Animal Care and Use Committee, reviews the use of animals in teaching to assure compliance with the standards established by the U.S. Department of Agriculture and the National Institutes of Health for the humane treatment of animals. The university makes every effort to minimize the use of animals and seeks alternatives wherever possible. Although Towson University recognizes that some students may believe the use of animals as teaching tools is inhumane, certain curricula require the use of animals as a necessary part of instruction. Accordingly, where the use of animals in class demonstrations or experiments is a requirement for successful completion of any course, as determined by the department, students will be obliged to comply with those requirements as set forth by the instructor in the course syllabus. The university will not provide optional procedures for students who do not comply with course requirements.

If a course requires the use of animals in class demonstrations or experiments, however, the syllabus will specifically state that animals will be used in class demonstrations or experiments and that such use is a requirement for successful completion of the course. Notice of this requirement will be made a part of the course description and will be published in this catalog.

Department of Chemistry

Professors: Laurence Boucher, Nordulf Debye, Mark Greenberg, David Larkin, Frank Milio, John Rawn, Linda Sweeting, Joseph Topping, Alan Wingrove
Associate Professors: Richard Preisler (*Chair*), Alan Pribula
Assistant Professor: Lev Ryzhkov

OFFICE

Smith Hall 547, 410-830-3058
 Fax: 410-830-4265
 e-mail: vsmith@towson.edu
 www.towson.edu/chemistry

PROGRAMS OF THE DEPARTMENT

The Department of Chemistry offers the following curricular options: the major in Chemistry, the American Chemical Society accredited major in Chemistry, the American Chemical Society accredited major in Chemistry/Biochemistry Track, the Chemistry Secondary Education Program for students planning to teach chemistry at the secondary level, the dual degree program with the University of Maryland School of Pharmacy and the minor in Chemistry.

To offer the broadest possible service and to meet the needs of a full range of students at the university, the Chemistry major provides a strong background in all major areas of chemistry: physical chemistry, inorganic chemistry, organic chemistry, biochemistry, analytical chemistry, and instrumental analysis. Students are given the opportunity to concentrate in one or more of these areas by taking advanced courses in areas of specific interest. Students are required to learn to use instruments commonly encountered in chemistry. Small classes are prevalent in all Chemistry courses, and students are taught by faculty in both lecture and laboratory. Special topics courses are offered periodically to provide students the opportunity to broaden their background in chemistry.

Chemistry majors are able to pursue many different avenues after graduation, including graduate study in chemistry and related areas, employment in government or industry, professional school (e.g., medicine, dentistry, pharmacy, law, library science), or secondary school teaching. There are many employment opportunities available to Chemistry majors, including those in water pollution, forensic chemistry, environmental chemistry, molecular biology, research and development, quality assurance and genetic engineering.

MAJOR IN CHEMISTRY

The major in Chemistry consists of a set of core courses (58 credits) in combination with additional required courses in one of three options.

Core Courses (required for all majors in chemistry)

MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
PHYS 241*	General Physics I (4)
PHYS 242*	General Physics II (4)
CHEM 110	General Chemistry I (4)
CHEM 111	General Chemistry II (4)
CHEM 213	Quantitative Analytical Chemistry Lecture (3)
CHEM 215	Quantitative Analytical Chemistry Laboratory (2)
CHEM 321	Descriptive Inorganic Chemistry (3)
CHEM 331	Organic Chemistry I (5)
CHEM 332	Organic Chemistry II (5)
CHEM 341	Physical Chemistry: Thermodynamics (3)
CHEM 342	Physical Chemistry: Structure and Kinetics (3)
CHEM 351	Introductory Biochemistry (3)
CHEM 372	Intermediate Laboratory I (1)

CHEM 373	Intermediate Laboratory II (1)
CHEM 401	Seminar in Chemistry (1)
CHEM 413	Theory of Instrumental Analysis (3)
CHEM 491**	Introduction to Research in Chemistry (1)
*PHYS 211 and 212 acceptable for the basic major in Chemistry and the Chemistry minor	
**or CHEM 391 or CHEM 395 for the basic major in Chemistry	

BASIC MAJOR IN CHEMISTRY

This major is recommended for students who intend to do graduate work in chemistry, to teach in secondary schools, to work in industrial, government and hospital laboratories, technical libraries, and related professions. Students who plan to pursue chemically oriented careers such as fundamental and industrial research, medicine, dentistry, pharmacy, veterinary medicine, agriculture and other allied fields, may also elect this major. Students electing this major should contact the Department of Chemistry and be assigned an adviser to assist them in designing programs to meet their career needs.

Additional Required Courses (6 credits)

CHEM 356	Biochemistry Laboratory (2)
or	
CHEM 424	Inorganic Chemistry Laboratory (2)
CHEM 374	Intermediate Laboratory III (1)
CHEM 425	Advanced Inorganic Chemistry (2)
CHEM 475	Intermediate Laboratory IV (1)

For those who intend to go to graduate school in chemistry, two semesters of a foreign language are strongly recommended. Additional Physics, Biology and Mathematics courses are also suggested, especially COSC 165 and/or MATH 275 and/or MATH 374 and/or PHYS 243 and/or PHYS 307. (See American Chemical Society (ACS) Certification.) Majors must also complete the General Education requirements.

AMERICAN CHEMICAL SOCIETY ACCREDITED MAJOR IN CHEMISTRY

The ACS degree is widely recognized throughout industry, government and education as a standard of excellence. Students with a good scholastic record and a general interest in chemistry are encouraged to pursue this degree program.

Additional Required Courses (11-12 credits)

CHEM 356	Biochemistry Laboratory (2)
or	
CHEM 424	Inorganic Chemistry Laboratory (2)
CHEM 374	Intermediate Laboratory III (1)
CHEM 425	Advanced Inorganic Chemistry (2)
CHEM 475	Intermediate Laboratory IV (1)

In addition, students must complete *two* advanced courses from the following: CHEM 356 (2), CHEM 417 (3), CHEM 424 (2), CHEM 431 (2), CHEM 432 (3), CHEM 441 (3), CHEM 452 (3), CHEM 454 (3). Students who have taken General Physics without calculus (PHYS 211 and PHYS 212) may count these courses for ACS certification *provided* an additional advanced physics lecture course is taken. An advanced course either in physics or mathematics may be substituted for one advanced course in chemistry (excluding CHEM 424 and CHEM 491). Inquiries about specific exemptions or substitution to the requirements should be made in writing to the chairperson of the department. Students selecting these substitutions must obtain *prior* departmental approval.

In selecting this program, students should plan their college careers carefully because not all the advanced chemistry courses are offered every semester. A tentative schedule of when these courses will be offered may be obtained from the Department of Chemistry. Advanced chemistry electives are offered periodically, subject to adequate enrollment.

BIOCHEMISTRY CONCENTRATION

Students may concentrate in Biochemistry through the *Molecular Biology, Biochemistry and Bioinformatics Program* that is described in a later section in the College of Science and Mathematics.

ENVIRONMENTAL CHEMISTRY TRACK IN ENVIRONMENTAL SCIENCE AND STUDIES PROGRAM

Students may pursue the Environmental Chemistry track of the *Environmental Science and Studies Program* that is described in a later section in the College of Science and Mathematics.

CHEMISTRY SECONDARY EDUCATION PROGRAM

Chemistry majors may obtain certification to teach chemistry at the secondary level. Students in the Secondary Education Program receive certification to teach in Maryland upon graduation. Chemistry majors seeking certification must complete BIOL 110 or BIOL 201 and one earth science course selected from the following: GEOG 373, GEOG 377, GEOL 121, GEOL 123, PHSC 161, GEOL 357. These students must complete 16 credits total of courses in Biology, Physics, and Earth Science. Additionally, students must meet the requirements specified by the Department of Secondary Education as listed in the catalog section describing the Physics Secondary Education Program.

Students must register with the Department of Secondary Education and should have an adviser in that department in addition to their chemistry faculty adviser.

DUAL DEGREE MEDICINAL CHEMISTRY PROGRAM WITH UNIVERSITY OF MARYLAND SCHOOL OF PHARMACY

Refer to the College of Science and Mathematics Dual Degree Programs section in this catalog.

MINOR IN CHEMISTRY

Students whose major interest is in cell or molecular biology, physiology, physiological psychology, environmental studies, natural science, molecular physics, or medical technology will find a good chemistry background to be a useful supplement to their major. The Chemistry minor can provide this background and offers some flexibility in catering to the specific interest of students. Students should consult the Chemistry minor adviser as soon as possible after entering Towson to design programs to meet their needs.

The minor in Chemistry requires a minimum of 24 credits in Chemistry, 12 of which must be upper-division. At least 8 upper-division credits must be taken at Towson. A grade equivalent of 2.00 or higher must be earned in each course. Courses taken elsewhere and accepted for transfer to Towson University may be used for the Chemistry minor.

Required Courses (24 credits)

- CHEM 110 General Chemistry I (4)
- CHEM 111 General Chemistry II (4)
- CHEM 210* Principles and Methods of Chemical Analysis (4)
- CHEM 330** Essentials of Organic Chemistry (5)

*CHEM 213 and CHEM 215 can be taken in place of CHEM 210

**CHEM 331 and CHEM 332 can be taken in place of CHEM 330

Upper-Division Chemistry Electives

In addition to the above required courses, one or more upper-division Chemistry courses may have to be taken for a *total* of 12 upper-division credits.

EVENING CHEMISTRY MAJOR PROGRAM

Please contact the Chemistry Department for information about this program.

TRANSFER CREDIT POLICY

Students who transfer to Towson University from a regionally accredited two-year college with an A.A. degree should have completed two semesters of General Chemistry, two semesters of Organic Chemistry, two semesters of Calculus, and two semesters of calculus-based Physics. Students who transfer from a two-year college *without* an A.A. degree should complete as many of the above-mentioned Chemistry, Physics and Mathematics courses as possible. Transfer students should consult the Department of Chemistry concerning the transferability of Chemistry courses and this catalog for university policies.

Transfer students must complete at least 12 upper-division credits in Chemistry at Towson to graduate with a degree in Chemistry.

ADVANCED PLACEMENT AND CREDIT FOR PRIOR LEARNING

The Department of Chemistry awards credit for General Chemistry through the Advanced Placement Examinations given by the Educational Testing Service.

Students may also receive credit for General Chemistry by taking the Credit for Prior Learning Examination which is administered through the Office for Non-Traditional Undergraduate Programs. Students may also receive credit for other chemistry courses by passing the appropriate examinations. Further information may be obtained from the department.

ADVANCED COMPOSITION COURSE

The Department of Chemistry offers CHEM 301, Professional Ethics for Scientists, a course that deals with professional ethics in the physical sciences and fulfills the General Education requirements for an advanced composition course.

GENERAL EDUCATION COURSES

- | | |
|---|---|
| Category I.D | Advanced Composition |
| CHEM 301 | Professional Ethics for Scientists |
| Category II.A.1 | Scientific Inquiry |
| CHEM 100 | Chemistry for Non-Scientists |
| CHEM 110/111* | General Chemistry I, II |
| CHEM 105/106* | Chemistry for Allied Health Professions I, II |
| CHEM 112 | Honors Chemistry for Non-Scientists |
| Category II.A.2 | Science, Technology and Society |
| IDNM 305 | Ethics, Science and Society |
| IDNM 309 | Women, Society and Radiation Science |
| *These two semester lecture-laboratory sequences meet the General Education requirements for both Categories II.A.1 and II.A.2. | |

RESEARCH IN CHEMISTRY

Students interested in participating in research may enroll in CHEM 491. CHEM 491 students should consult the undergraduate research coordinator, who will assist them in finding a research project of interest. Students must complete CHEM 491 before their final semester at Towson University. In addition, undergraduate research participation grants are awarded by the university on a competitive basis to provide support for student research.

INTERNSHIPS

Chemistry majors are encouraged to participate in the Internship Program and receive academic credit for practical work experience in areas of special student interest. Academic credit can be acquired by taking CHEM 395, Internship in Chemistry. For further information, contact the Career Center, 410-830-2233, or the Department of Chemistry internship coordinator.

DEPARTMENTAL ACTIVITIES AND AWARDS

Many Chemistry majors actively participate in the Student Affiliates of the American Chemical Society (ACS), a student group supported by the department under the auspices of the ACS. This organization permits students to join the national organization and to procure certain chemistry publications and services at reduced rates.

Student awards are given annually for outstanding work in chemistry courses. These include the CRC Press Freshman Chemistry Achievement Award, Merck Index Achievement Award in Organic Chemistry, ACS Achievement in Organic Chemistry Award (joint Polymer-Education Committee), Analytical Division (ACS) Award in Analytical Chemistry, Coblentz Society Award in Spectroscopy, Floyd A. Blankenship Award in Physical Chemistry, American Institute of Chemists Outstanding Senior Award, and the ACS Outstanding Student Award.

Department of Computer and Information Sciences

Professors: John Alexander, Ali Behforooz, Darush Davani, John Grant, Doris Lidtke, Joyce Little, Chao Lu (*Chair*), Rajeshwar Srivastava

Associate Professors: James Clements, Charles Dierbach, Harry Zhou

Assistant Professors: Shiva Azadegan, Donald Day, Ramesh Karne, Yanggon Kim, Jonathan Lazar, Craig Piercy, Charles Schmitt, James Smith, Alexander Wijesinha, Marius Zimand

Visiting Assistant Professors: Murray Berkowitz, Gabrielle Meiselwitz

Lecturers: Alfreda Dudley, Willard Graves, Dennis Hamilton, Cheryl Schroeder-Thomas, Blair Taylor, Iliana Zimand

OFFICE

Stephens Hall 314, 410-830-2633

PROGRAMS OF THE DEPARTMENT

The Department of Computer and Information Sciences offers the following programs of study: the major in Computer Science; the major in Computer Science with a second major in Mathematics; the major in Computer Information Systems; the major in Computer Information Systems with a second major in Business Administration; the minor in Computer Science, and the minor in Computer Information Systems. The major in Computer Science and the major in Computer Science with a second major in Mathematics are both accredited by the Computing Sciences Accreditation Board (CSAB), a specialized accrediting body.

The Computer Science major offers students an opportunity to study for both a theoretical and practical background, which can lead to computer-oriented careers in a variety of settings. Graduates are sought by scientific research organizations, software development companies, business and banking operations, government agencies, educational institutions and computer manufacturers. Jobs held by recent graduates include systems programmer, computer programmer/analyst, computer specialist, systems analyst/designer, software engineer, and management information systems specialist. Students are encouraged to expand their studies by taking courses in areas such as business, education or the sciences. Computer expertise combined with knowledge in an application area is attractive to specific employers. The programs also prepare students for graduate work in computer sciences, mathematics or management information systems.

The curriculum seeks to provide factual knowledge as well as a mode of thinking which permits continued growth on the part of graduates. In addition to exposing students to a depth of knowledge in computer science sufficient to lay the basis for professional competence, the curriculum also provides students with the intellectual maturity to stay abreast of their own discipline and to interact with other disciplines.

Degree requirements may be fulfilled by matriculated students attending classes either full-time or part-time. Students attending part-time in the evening are advised that not all required courses are available in the evening every semester. COSC/CIS course cycle information is available in the department.

The department has 29 full-time faculty members and a number of part-time faculty. Research specialties include artificial intelligence, database languages, decision support systems, networks, numerical and linear analysis, operating systems, robotics, simulation, software engineering, and systems analysis and design.

Students enrolled in Computer Science courses work with an assortment of computing machinery in a variety of computing

laboratories to achieve their educational goals. Instructional facilities planned and provided by the department include an Undergraduate Majors Open Lab, a Graduate Open Lab, three general classroom labs, an NSF-funded Collaborative Learning Lab, a Hardware/Real-Time Processing Lab, a Parallel Computing Lab, and a Faculty/Graduate Research Lab. The department also employs facilities off-campus at the Harford County Higher Education and Applied Technology Center (H.E.A.T.) location.

The computing needs of Computer Science majors are also met by the facilities and services provided by the university's Computing and Network Services (CANS).

Students electing the major should contact the Department of Computer and Information Sciences and be assigned a faculty adviser to assist them in planning their academic schedules, identifying educational goals and maintaining good academic progress.

MAJOR IN COMPUTER SCIENCE

CSAB-Accredited

The Computer Science major requires 74-78 credits to be earned with a grade equivalent of 2.00 or higher. A minimum of 30 credits must be taken at Towson University.

Required COSC Courses (29 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 280	Assembly Language and Computer Architecture (3)
COSC 336	Data and File Structures (4)
COSC 338	Computer Organization and Architecture (4)
COSC 439	Operating Systems (3)
COSC 455	Programming Languages: Design and Implementation (3)
COSC 457	Database Management Systems (3)
COSC 480	Senior Seminar (1)
(COSC 418 may be selected as a substitute for COSC 480)	

Required MATH Courses (18-19 credits)

MATH 263	Discrete Mathematics (3)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 330	Introduction to Statistical Methods (4)

And at least one of the following:

MATH 265	Elementary Linear Algebra (4)
MATH 275	Calculus III (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 435	Numerical Analysis I (3)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (3)
MATH 451	Graph Theory (3)
MATH 467	Algebraic Structures (4)

Electives COSC Courses (12-14 credits)

A. At least two courses from the following:

COSC 367	Discrete Structures (3)
COSC 415	Compiler Design (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)
COSC 461	Artificial Intelligence (3)
COSC 483	Design and Analysis of Algorithms (3)

B. At least two courses from the following:

COSC 350	Data Communications and Networking (3)
COSC 412	Software Engineering (3)
COSC 431	Selected Topics in Computer Science (3)
COSC 438	Parallel/Vector Computer Architectures (3)
COSC 471	Computer Graphics (3)
COSC 484	Web-Based Programming (3)

Science Requirement (15-16 credits)

A sequence of two courses taken from Physics, Biology or Chemistry, which must be courses accepted for majors in that discipline and must have the equivalent of 1 credit of laboratory work. Two additional science courses from Physics, Biology or

Chemistry, which must be from courses accepted for the major in that discipline, except PHYS 244, 303, and 337 are not counted.

General Education Requirement

COMM 131 (completed with a grade equivalent of 2.00 or higher). This course can count toward GenEd II.B.3.

DOUBLE MAJOR IN COMPUTER SCIENCE AND MATHEMATICS

CSAB-Accredited

The Computer Science major with a second major in Mathematics requires 91-95 credits to be earned with a grade equivalent of 2.00 or higher. A minimum of 30 credits must be taken at Towson University.

Required Core Courses (61 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 280	Assembly Language and Computer Architecture (3)
COSC 336	Data and File Structures (4)
COSC 338	Computer Organization and Architecture (4)
COSC 439	Operating Systems (3)
COSC 455	Programming Languages: Design and Implementation (3)
COSC 457	Database Management Systems (3)
COSC 480	Senior Seminar (1)
(COSC 418 may be selected as a substitute for COSC 480)	
MATH 263	Discrete Mathematics (3)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Math (3)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 435	Numerical Analysis I (3)
MATH 490	Senior Seminar in Math (2)

Elective Courses (15-18 credits)

Computer Science (9-10 credits)

Two courses from the following:

COSC 367	Discrete Structures (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 483	Design and Analysis of Algorithms (3)

And one course from the following:

COSC 350	Data Communications and Networking (3)
COSC 412	Software Engineering (3)
COSC 415	Compiler Design (3)
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)
COSC 484	Web-Based Programming (3)

or

Two courses from the following:

COSC 350	Data Communications and Networking (3)
COSC 415	Compiler Design (3)
COSC 441	Computer Performance Evaluation (3)
COSC 459	Computer Simulation and Modeling (3)
COSC 484	Web-Based Programming (3)

And one course from the following:

COSC 367	Discrete Structures (3)
COSC 417	Introduction to the Theory of Computing (3)
COSC 461	Artificial Intelligence (3)
COSC 471	Computer Graphics (3)
COSC 483	Design and Analysis of Algorithms (3)

Mathematics (6-8 credits)

Two courses from the following; at least one must be selected from MATH 377, 436, 437, 451:

MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (4)
MATH 451	Graph Theory (3)

MATH 457	Differential Geometry (3)
MATH 467	Algebraic Structures (4)
MATH 473	Introductory Real Analysis (4)
MATH 475	Complex Analysis (3)
MATH 477	Topology (3)

Science Requirement (15-16 credits)

A sequence of two courses taken from Physics, Biology or Chemistry, which must be courses accepted for majors in that discipline and must have the equivalent of 1 credit of laboratory work. Two additional science courses from Physics, Biology or Chemistry, which must be from courses accepted for the major in that discipline, except PHYS 244, 303 and 337 are not counted.

General Education Requirement

COMM 131 (completed with a grade equivalent of 2.00 or higher). This course can count toward GenEd II.B.3.

MAJOR IN COMPUTER INFORMATION SYSTEMS

The Computer Information Systems major requires 63-65 credits to be earned with a grade equivalent of 2.00 or higher. A minimum of 30 credits must be taken at Towson University.

Required CIS and COSC Courses* (33 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
CIS 239	Computer Systems Architecture (3)
CIS 334	Data Organization (3)
CIS 341	Advanced Concepts of Information Systems (3)
COSC 350	Data Communications and Networking (3)
CIS 407	Systems Analysis (3)
CIS 409	Systems Design (3)
COSC 457	Database Management Systems (3)
CIS 479	Software Project Management (3)
COSC 480	Senior Seminar (1)
(COSC 418 may be selected as a substitute for COSC 480)	

Required MATH Courses (9-11 credits)

MATH 211	Calculus for Applications (3)
or	
MATH 273	Calculus I (4)
or	
MATH 231	Basic Statistics I (3)
or	
MATH 330	Introduction to Statistical Methods (4)
or	
MATH 263	Discrete Mathematics (3)

Elective CIS and COSC Courses (9 credits) two courses must be upper-level

CIS 212	Introduction to Business Programming (3)
COSC 265	Advanced Visual Basic (3)
COSC 412	Software Engineering (3)
CIS 425	Decision Support Systems (3)
CIS 433	Selected Topics in Information Systems (1-3)
CIS 435	Human-Computer Interaction (3)
COSC 459	Computer Simulation and Modeling (3)
COSC 461	Artificial Intelligence (3)
COSC 471	Computer Graphics (3)
COSC 484	Web-Based Programming (3)

Courses from the College of Business and Economics (12 credits)

ACCT 201	Accounting Principles I (3)
ACCT 202	Accounting Principles II (3)
or	
ECON 201	Microeconomics Principles (3)
ECON 202	Macroeconomics Principles (3)
and	

Two additional upper-division courses from the College of Business and Economics (6)

DOUBLE MAJOR IN COMPUTER INFORMATION SYSTEMS AND BUSINESS ADMINISTRATION

The Computer Information Systems major with a second major in Business Administration requires 89 credits to be earned with a grade equivalent of 2.00 or higher. A minimum of 30 credits must be taken at Towson University.

Lower-Level Prerequisite Courses (18 credits)

ACCT 201/211	Accounting Principles I (3)
ACCT 202/212	Accounting Principles II (3)
COSC 111	Information and Technology for Business (3)
ECON 201/203	Microeconomic Principles (3)
ECON 202/204	Macroeconomic Principles (3)
LEGL 225	Legal Environment of Business (3)

Required MATH Courses (9 credits)

MATH 231	Basic Statistics (3)
or	
ECON 205	Statistics for Business and Economics (3)
or	
MATH 211	Calculus for Applications (3)
or	
MATH 273	Calculus I (3)
or	
MATH 263	Discrete Mathematics (3)

CBE Upper-Division Core Requirements (30 credits)

CBEC 301	Business Cornerstone (3)
CBEC 460	Professional Experience (3)
ECON 305	Survey in International Economics (3)
FIN 331	Principles of Financial Management (3)
MKTG 341	Principles of Marketing (3)
MNGT 355	Introduction to International Business (3)
MNGT 361	Management and Organization Theory (3)
MNGT 365	Principles of Operations Management (3)
MNGT 481	Business Strategy and Policy (3)
MNGT 482	Business Ethics and Society (3)

Required Elective Course (3 credits)

MNGT 263	Decision Sciences I (3)
or	
CIS 479	Software Project Management (3)

Computer Information Systems Requirements (29 credits)

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
CIS 239	Computer Systems Architecture (3)
CIS 334	Data Organization (3)
CIS 341	Advanced Concepts of Information Systems (3)
COSC 350	Data Communications and Networking (3)
CIS 407	Systems Analysis (3)
CIS 409	Systems Design (3)
COSC 457	Database Management Systems (3)

MINOR IN COMPUTER SCIENCE

This minor is available to students who have a major other than Computer Science, Computer Information Systems or Applied Mathematics and Computing Concentration. All Computer Science minors are required to take 21 credits in Computer Science to be completed with a grade equivalent of 2.00 or higher. At least half must be taken at Towson University.

COSC 236	Introduction to Computer Science I (4)
COSC 237	Introduction to Computer Science II (4)
COSC 336	Data and File Structures (4)
Electives* (9)	

* The 9 credits of elective courses must include 6 hours of upper-division courses and may include one approved computer-related course from outside the department. COSC 109, 111, 115 or 165 cannot count as electives.

*COSC 111, Information and Technology for Business, is strongly recommended for GenEd Category I.B.

MINOR IN COMPUTER INFORMATION SYSTEMS

All Computer Information Systems minors are required to take 20 credits in Computer Science to be completed with a grade equivalent of 2.00 or higher. At least half must be taken at Towson University.

Required CIS and COSC Courses (11 credits)

- COSC 236 Introduction to Computer Science I (4)
- COSC 237 Introduction to Computer Science II (4)
- CIS 341 Advanced Concepts of Information Systems (3)

Elective CIS and COSC Courses (9 credits)

At least three courses from the following:

- CIS 334 Data Organization (3)
- COSC 350 Data Communications and Networking (3)
- CIS 407 Systems Analysis (3)
- CIS 409 Systems Design (3)
- COSC 412 Software Engineering (3)
- CIS 425 Decision Support Systems (3)
- CIS 433 Special Topics in Information Systems (1-3)
- CIS 435 Human-Computer Interaction (3)
- COSC 457 Database Management Systems (3)
- COSC 461 Artificial Intelligence (3)
- COSC 471 Computer Graphics (3)
- CIS 479 Software Project Management (3)

One course from outside COSC/CIS may be used if it is first approved by the Department of Computer and Information Sciences.

MEETING GENERAL EDUCATION REQUIREMENTS

Since fall 1996, all students entering the university have been required to meet the General Education (GenEd) requirements described elsewhere in this catalog. Computer Science and Computer Information Systems majors in particular should note the following Computer Science courses which may be used to satisfy GenEd requirements in various categories. The categories are indicated in parentheses.

- COSC 109 Computers and Creativity (I.E)
- COSC 111 Information and Technology for Business (I.B)
- COSC 311 Digital Technologies in Society (II.A.2)
- COSC 321 Computerization and Its Impacts (II.A.2)
- COSC 418 Ethical and Societal Concerns of Computer Science (II.A.2)

TRANSFER CREDIT POLICY

Students intending to transfer into the Computer Science or Computer Information Systems program should provide course descriptions and supportive materials from their institution for review by a departmental adviser. Community college students from local public institutions should be aware that agreements on equivalency of courses are maintained; they should inquire about the current agreement either at their institution or at Towson University. They should also be aware that community college courses can only be counted as lower-division work. Transfer students are urged to gain a good background in mathematics.

SECOND BACHELOR'S PROGRAM

Baccalaureate degree holders may apply for enrollment in the Second Bachelor's Program through the Office for Non-Traditional Undergraduate Programs. Because of the high demand for computer personnel, the Computer Science or Computer Information Systems major is often of interest to persons who wish to change careers. Students in this program must satisfy the requirements for the major and earn at least the last 30 hours at Towson University. Although there are Computer Science or Computer Information Systems courses offered in the evening, students may find that some required courses must be taken during the day. Because of the sequence of prerequisites, a minimum of five terms is normally needed to complete the program.

DEPARTMENTAL ACTIVITIES

A student chapter of the Association for Computing Machinery (ACM) is the basis for the Computer Science Club. Meetings are held during the semester, with field trips and speakers featured. To recognize outstanding talent in the field of computer science, Towson University has a charter chapter of Upsilon Pi Epsilon (UPE), the first and only international honor society for the Computer Sciences. Members of UPE are outstanding undergraduate and graduate students in Computer Science.

DEPARTMENTAL AWARDS

The Mary Hudson Scarborough Award in Computer Science is given annually to the outstanding Computer Science graduate. Each semester Upsilon Pi Epsilon (UPE) presents the UPE Award for Excellence in Computer Science. The award is given to an outstanding Computer Science or Computer Information Systems major; one award is for a non-UPE COSC/CIS major and one award is for an active UPE member.

Environmental Science and Studies Program

Director: Jane L. Wolfson

Affiliated Faculty, Environmental Science: Rachel Burks (*Physics, Astronomy and Geosciences*), Nordulf Debye (*Chemistry*), Jonathan Filer (*Physics, Astronomy and Geosciences*), Donald Forester (*Biological Sciences*), Susan Gresens (*Biological Sciences*), Richard Hilton (*Biological Sciences*), James Hull (*Biological Sciences*), Scott Johnson (*Biological Sciences*), David Larkin (*Chemistry*), Jay Nelson (*Biological Sciences*), Gerald Robinson (*Biological Sciences*), Lev Ryzhkov (*Chemistry*), Aubrey Scarbrough (*Biological Sciences*), Erik Scully (*Biological Sciences*), Joel Snodgrass (*Biological Sciences*), Joseph Topping (*Chemistry*), Jay Valdes (*Biological Sciences*), Donald Windler (*Biological Sciences*), Jane Wolfson (*Biological Sciences*), Daniel Wubah (*Biological Sciences*)

Affiliated Faculty, Environmental Studies: Daniel Agley (*Health Science*), Kent Barnes (*Geography and Environmental Planning*), Allaire Brumfield (*History*), Lillian Carter (*Health Science*), James DiLisio (*Geography and Environmental Planning*), Kenneth Haddock (*Geography and Environmental Planning*), Daniel Kealey (*Philosophy and Religious Studies*), Chang Kong (*Economics*), Ling Li (*Economics*), Toni Marzotto (*Political Science*), Jeffrey Michael (*Economics*), John Morgan (*Geography and Environmental Planning*), Dennis Muniak (*Political Science*), Thomas Rhoads (*Economics*), Martin Roberge (*Geography and Environmental Planning*), Stephen Scales (*Philosophy and Religious Studies*), Ralph Scott (*Geography and Environmental Planning*), Timothy Sullivan (*Economics*), Wing-Chun Wong (*Philosophy and Religious Studies*), Tamara Woroby (*Economics*)

OFFICE

Smith Hall 348, 410-830-4920

THE PROGRAM

The Environmental Science and Studies Program has two primary educational objectives. One is to provide the fundamental scientific, technical and social knowledge that program graduates will need to assess, plan and evaluate environmental concerns, particularly those confronting metropolitan regions. The second is to instill the wide range of cognitive skills and content mastery which students will need to effectively analyze environmental issues and propose realistic plans for solving environmental problems at local, regional and national levels.

The core requirements of the program are structured to meet these two objectives and include mathematical and scientific foundations as well as extensive interdisciplinary study related to environmental issues. The required capstone seminar integrates the student's program of study, and the senior internship/research requirement gives first-hand practice in an environmental field. The environmental problems addressed in many classes and seminars will focus on the adjacent urban/suburban region and its impact on the surrounding environment.

Most environmental problems resist solutions from any single discipline. To counter this dilemma, the program utilizes a rigorous interdisciplinary approach. The curriculum draws upon the expertise of faculty in the areas of biology, chemistry, geology, mathematics, physics, environmental ethics and values, public policy, economics, geography, public health and social change.

MAJOR IN ENVIRONMENTAL SCIENCE AND STUDIES

Students majoring in Environmental Science and Studies have a choice of two concentrations: Environmental Studies or Environmental Science. There is considerable overlap in the core courses between the two concentrations. As students progress through the program, they begin to specialize in their area of greatest interest. The senior year brings students from both concentrations together for a capstone course that emphasizes application of concepts to real world problems. The Environmental Science Concentration is described below. For information on the Environmental Studies Concentration, see the College of Liberal Arts.

ENVIRONMENTAL SCIENCE CONCENTRATION

The Environmental Science Concentration has a core of required courses. Students then choose a track that provides advanced study in one of three different fields: Biology, Chemistry or Geology, or for students who chose not to specialize, a more general Environmental Science Track is also available. The Environmental Science Tracks require a total of between 71-78 credits. Up to 23 credit hours of this required course work can also fulfill GenEd requirements.

Common Core Requirements (46-48 credits)

All students in the program will complete a common core of course work establishing the scientific principles and mathematical skills needed as a foundation for more specialized study. They also will complete a core of courses in social sciences, a capstone course, and an upper-level internship or research course.

Of the total credits in program requirements, up to 23 may be used to fulfill GenEd requirements (identified by an asterisk following the course number), effectively reducing the number of credits that apply solely to the Environmental Science and Studies major.

Natural Sciences (16 credits)

CHEM 110*	General Chemistry I (4)
CHEM 111*	General Chemistry II (4)
BIOL 202*	Introduction to Ecology, Evolution and Behavior (4)
GEOL 121*	Physical Geology (4)

Mathematics and Statistics (6-8 credits)

One of the following:

MATH 119*	Pre-Calculus (4)
MATH 211*	Calculus for Applications (3)

One of the following:

MATH 231*	Basic Statistics (3)
MATH 237*	Elementary Biostatistics (4)
GEOG 375	Quantitative Methods in Geography (3)
ECON 205*	Statistics for Business and Economics (3)

Social Sciences (18 credits)

ENGL 318*	Advanced Informational Writing (3)
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One of the following:

PHIL 255*	Environmental Ethics (3)
HLTH 451	Ecological Aspects of Health (3)

Two of the following, two-course sequences:

GEOG 101*	Physical Geography (3)
GEOG 410	Environmental Geography (3)

ECON 201*	Microeconomic Principles (3)
ECON 375	Environmental Economics (3)

POSC 103*	American National Government (3)
or	
POSC 207*	State and Local Government (3)
POSC 421	Politics and Environmental Policy (3)

Seminar and Applications (6 credits)

- ENVS 482 Environmental Research (3)
 ENVS 485 Environmental Internship (3)
 or
 ENVS 491 Senior Seminar (3)

ENVIRONMENTAL BIOLOGY TRACK (27-34 credits)**Required Courses**

- BIOL 201* Cellular Biology and Genetics (4)
 BIOL 402 Ecology (4)

One of the following:

- CHEM 330 Essentials of Organic Chemistry (5)
 CHEM 331-332 Organic Chemistry I, II (10)

One of the following:

- BIOL 205 General Botany (4)
 BIOL 207 General Zoology (4)

Three of the following electives:

- BIOL 309 Genetics (4)
 BIOL 310 Environmental Conservation (4)
 BIOL 318 Microbiology (4)
 BIOL 325 Environmental Physiology (4)
 BIOL 341 Freshwater Algae (4)
 BIOL 347 Marine Biology (3)
 BIOL 353 Invertebrate Zoology (4)
 BIOL 406 Limnology (4)
 BIOL 411 Wildlife Biology (4)
 BIOL 432 Vascular Plant Taxonomy (4)
 BIOL 435 Plant Ecology (4)
 BIOL 436 Plant Physiology (4)
 BIOL 456 Ornithology (4)
 BIOL 458 Mammalogy (4)
 BIOL 461 Entomology (4)
 BIOL 467 Herpetology (4)

ENVIRONMENTAL CHEMISTRY TRACK (28-36 credits)**Required Courses**

- CHEM 210 Principles and Methods of Chemical Analysis (4)
 CHEM 330 Essentials of Organic Chemistry (5)

or

- CHEM 331-332 Organic Chemistry I, II (10)
 BIOL 402 Ecology (4)

GEOL 415 Hydrogeology (4)

PHYS 203 Topics in Physics for Biology Majors (5)

or

PHYS 211-212* Physics I, II (8)

Six credits from the following:

- CHEM 321 Descriptive Inorganic Chemistry (3)
 CHEM 340 Physical Chemistry: Principles and Applications (3)
 CHEM 351 Introductory Biochemistry (3)
 CHEM 356 Biochemistry Laboratory (2)
 CHEM 361 Chemical and Bacterial Studies of Water Pollution (3)
 CHEM 372 Intermediate Laboratory I (1)

ENVIRONMENTAL GEOLOGY TRACK (31-32 credits)**Required Courses**

- CHEM 210 Principles and Methods of Chemical Analysis (4)
 PHYS 211 Physics I (4)
 GEOL 305 Environmental Geology (4)
 GEOL 321 Structural Geology (4)
 GEOL 331 Mineralogy (4)
 GEOL 415 Hydrogeology (4)
 GEOL 443 Sedimentology and Stratigraphy (4)

One of the following electives:

- GEOL 323 Geomorphology (4)
 GEOL 333 Petrology of Igneous and Metamorphic Rocks (4)
 GEOL 357 Physical Oceanography (3)
 GEOL 451 Petrology of Sedimentary Rocks (3)

ENVIRONMENTAL SCIENCE TRACK (25-30 credits)**Required Courses**

- BIOL 201* Cellular Biology and Genetics (4)
 PHYS 211-212* Physics I, II (8)

One of the following:

- CHEM 210 Principles and Methods of Chemical Analysis (4)
 CHEM 330 Organic Chemistry (5)

One of the following:

- BIOL 402 Ecology (4)
 GEOL 415 Hydrogeology (4)
 ENVS 471 Special Topics in Environmental Science/Studies (3)
 Two additional upper-level electives from Biology, Chemistry, Geology or Geography (6-10)

MINOR IN ENVIRONMENTAL STUDIES

Students may minor in Environmental Studies by taking five core courses and fulfilling an additional 6 to 8 credit requirement for the minor (21 to 23 credits total).

All students minoring in Environmental Studies take the following five core courses for a total of 15 credits:

- ECON 375 Environmental Economics (3)
 GEOG 410 Environmental Geography (3)
 HLTH 451 Ecological Aspects of Health (3)
 PHIL 255 Environmental Ethics (3)
 POSC 421 Politics and Environmental Policy (3)

Science majors who minor in Environmental Studies take two additional 3-credit elective courses listed in the Environmental Studies description under the College of Liberal Arts. Total credit requirement for the minor for science majors is 21 credits.

Non-science majors who minor in Environmental Studies take 8 credits in the Environmental Sciences. A one-year sequence in a science with lab (8 credits) selected from the Environmental Science and Studies core (BIOL 201-202, CHEM 110-111) satisfies this requirement. Total credit requirement for the minor for non-science majors is 23 credits.

*Courses may be used to fulfill General Education requirements.

Department of Mathematics

Professors: Mostafa Aminzadeh, John Chollet, James Coughlin, Saeed Ghahramani (*Chair*), Geoffrey Goodson, John Grant, Martin Horak, Ohoe Kim, Coy May, Martha Siegel, Houshang Sohrab, Leonid Stern

Associate Professors: Raouf Boules, Richard Krach, John Morrison, Laurence Shirley, Tadanobu Watanabe, Jay Zimmerman

Assistant Professors: Tiziana Giorgi, Howard Kaplon, Michael O'Leary, Candice Ridlon, William Rose, Hong Ryoo, Robert Smits, Wei Sun, Caryn Werner, Maureen Yarnevich

Contractual Associate Professor: William Moulds

Lecturers: Jerome Cohen, Froma Lustman, Judith Macks

Director of Distance Education Program: Robert Hanson

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PROGRAMS OF THE DEPARTMENT

The mathematics curriculum provides opportunities for students to do abstract reasoning applicable to many scientific or academic areas, to survey the field of mathematics, to study the applications of the discipline, and to prepare for additional study or for a career.

The Department of Mathematics offers the following programs: the major in Mathematics, in which there are five concentrations; the minor in Mathematics, designed to enhance major programs to which mathematics is readily applied; the minor in Mathematics with the Elementary Education major, for prospective elementary teachers who may wish to teach mathematics at the middle school or junior high school level; the minor in Applied Statistics, designed to provide the knowledge and skills necessary for students to successfully enter quantitative career specialties within their chosen majors; and the second major programs offered in conjunction with the departments of Economics and Computer and Information Sciences.

The Mathematics major has five areas of concentration from which to choose. The Mathematics Secondary Education Concentration is designed for students who wish to become certified to teach mathematics in secondary schools. The Pure Mathematics Concentration emphasizes abstract mathematics. For students interested in the actuarial profession, there is an Actuarial Science Concentration that provides the necessary background required for entry-level positions in that field. The Applied Mathematics Concentration and the Applied Mathematics and Computing Concentration are designed for students who wish to apply mathematics to problems in business and industry.

The Bachelor of Arts degree may be earned by adding the intermediate level of a foreign language or its equivalent to the major course requirements.

MAJOR IN MATHEMATICS

Mathematics majors may choose from the following areas of concentration: Pure Mathematics, Applied Mathematics, Applied Mathematics and Computing, Actuarial Science, and Mathematics Secondary Education. Students must complete the General Education requirements in addition to the requirements for a concentration.

PURE MATHEMATICS CONCENTRATION

The Pure Mathematics Concentration requires 59-61 credits completed with a grade equivalent of 2.00 or higher.

Required Courses (48 credits)

COSC 236	Introduction to Computer Science I (4)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 379	Advanced Calculus (3)
MATH 467	Algebraic Structures (4)
MATH 473	Introductory Real Analysis (4)
MATH 475	Complex Analysis (4)
MATH 490	Senior Seminar in Mathematics (2)

Upper-Division Mathematics Electives (6 credits)

Two courses from the following:

MATH 315	Applied Combinatorics (3)
MATH 367	Theory of Numbers (3)
MATH 377	Mathematical Models (3)
MATH 451	Graph Theory (3)
MATH 457	Differential Geometry (3)
MATH 463	Linear Algebra (3)
MATH 477	Topology (3)

Applications (6-8 credits)

Two courses from the following:

PHYS 241, PHYS 242, BIOL 401, COSC 417, COSC 461, COSC 471, ECON 451, MGNT 365, MGNT 467, SOCI 391, with the restriction that only one of BIOL 401 and SOCI 391 may be selected.

APPLIED MATHEMATICS CONCENTRATION

The Applied Mathematics Concentration requires 58-62 credits completed with a grade equivalent of 2.00 or higher.

Required Courses (46 credits)

COSC 236	Introduction to Computer Science I (4)
MATH 265	Elementary Linear Algebra (4)
MATH 267	Introduction to Abstract Mathematics (4)
MATH 273	Calculus I (4)
MATH 274	Calculus II (4)
MATH 275	Calculus III (4)
MATH 330	Introduction to Statistical Methods (4)
MATH 331	Probability (4)
MATH 374	Differential Equations (3)
MATH 377	Mathematical Models (3)
MATH 379	Advanced Calculus (3)
MATH 435	Numerical Analysis I (3)
MATH 490	Senior Seminar in Mathematics (2)

Upper-Division Mathematics Electives (6-8 credits)

Two courses from the following:

MATH 315	Applied Combinatorics (3)
MATH 332	Mathematical Statistics (4)
MATH 436	Numerical Analysis II (3)
MATH 437	Operations Research (4)
MATH 451	Graph Theory (3)
MATH 457	Differential Geometry (3)
MATH 463	Linear Algebra (3)
MATH 473	Introductory Real Analysis (4)

Applications (6-8 credits)

Two courses from the following:

PHYS 241, PHYS 242, BIOL 401, COSC 417, COSC 461, COSC 471, ECON 451, MNGT 365, MNGT 467, SOCI 391, with the restriction that only one of BIOL 401 and SOCI 391 may be selected.

APPLIED MATHEMATICS AND COMPUTING CONCENTRATION

The Applied Mathematics and Computing Concentration requires 63-67 credits completed with a grade equivalent of 2.00 or higher.

Required Courses (51 credits)

- COSC 236 Introduction to Computer Science I (4)
- COSC 237 Introduction to Computer Science II (4)
- COSC 336 Data and File Structures (4)
- MATH 265 Elementary Linear Algebra (4)
- MATH 267 Introduction to Abstract Mathematics (4)
- MATH 273 Calculus I (4)
- MATH 274 Calculus II (4)
- MATH 275 Calculus III (4)
- MATH 330 Introduction to Statistical Methods (4)
- MATH 331 Probability (4)
- MATH 377 Mathematical Models (3)
- MATH 379 Advanced Calculus (3)
- MATH 435 Numerical Analysis I (3)
- MATH 490 Senior Seminar in Mathematics (2)

Upper-Division Mathematics Electives (3-4 credits)

One course from the following:

- MATH 315 Applied Combinatorics (3)
- MATH 332 Mathematical Statistics (4)
- MATH 374 Differential Equations (3)
- MATH 436 Numerical Analysis II (3)
- MATH 437 Operations Research (4)
- MATH 451 Graph Theory (3)
- MATH 457 Differential Geometry (3)

Upper-Division Computer Science Elective (3-4 credits)

One course from the following:

- COSC 338 Computer Organization and Architecture (4)
- COSC 439 Operations Systems (3)
- COSC 455 Programming Languages: Design and Implementation (3)
- COSC 461 Artificial Intelligence (3)
- COSC 441 Computer Performance Evaluation (3)
- COSC 457 Database Management Systems (3)

Applications (6-8 credits)

Two courses from the following:

BIOL 401, COSC 417, COSC 461, COSC 471, ECON 451, MGNT 365, MGNT 467, PHYS 241, PHYS 242, SOCI 391, with the restrictions that only one of BIOL 401 and SOCI 391 may be selected, and that COSC 461 is not selected as the upper-division computer science elective.

ACTUARIAL SCIENCE CONCENTRATION

The Actuarial Science Concentration requires 71-72 credits completed with a grade equivalent of 2.00 or higher.

Required Courses (68 credits)

- ACCT 201-202 Accounting Principles I and II (6)
- COSC 236 Introduction to Computer Science I (4)
- ECON 201-202 Microeconomic and Macroeconomic Principles (6)
- ENGL 317 Writing for Business and Industry (3)
- FIN 331 Principles of Financial Management (3)
- FIN 332 Advanced Financial Management (3)
- MATH 265 Elementary Linear Algebra (4)
- MATH 267 Introduction to Abstract Mathematics (4)
- MATH 273 Calculus I (4)
- MATH 274 Calculus II (4)
- MATH 275 Calculus III (4)
- MATH 330 Introduction to Statistical Methods (4)
- MATH 331 Probability (4)
- MATH 332 Mathematical Statistics (4)
- MATH 435 Numerical Analysis I (3)
- MATH 438 Life Contingencies I (3)
- MATH 485 Mathematical Finance (3)
- MATH 490 Senior Seminar in Mathematics (2)

Upper-Division Mathematics Elective (3-4 credits)

One course from the following courses:

- MATH 377 Mathematical Models (3)
- MATH 437 Operations Research (4)

MATHEMATICS SECONDARY EDUCATION CONCENTRATION

Mathematics majors in the Secondary Education Concentration are eligible, upon graduation, to apply for certification to teach mathematics at both the middle and high school levels in the state of Maryland. Students in this concentration should be prepared to do their student teaching in their senior year. Any student who wishes to deviate from this policy must obtain permission from the Department of Mathematics prior to the beginning of their junior year. Consult the Department of Secondary Education section in this catalog for additional course and professional requirements for preservice Secondary Education majors.

In addition to the university's GenEd requirements, students in this concentration must complete 78-80 credit hours, earning a grade equivalent of 2.00 or higher. However, a minimum cumulative QPA of 2.75 is required for student teaching.

Requirement for Admission to Teacher Education Program

All students applying for admission to a Teacher Education program at Towson University are required to complete a Criminal Background Disclosure Form. This form is to be notarized and sent to the director of the Center for Applied Skills in Education (CASE) at the College of Education to be kept on file.

Requirement for Student Teaching/Internship

Effective fall 1999, all preservice students in Teacher Education programs at Towson University whose program of study requires an intensive/extensive internship or student teaching experience in a public or private school setting (pre-K through 12) will be required to undergo a criminal background check before entering this experience. The criminal background check must be filed with the director of CASE.

With the elimination of the National Teachers Examination (NTE) Core Battery tests, effective November 22, 1998, all teacher candidates who have not taken or passed the General Knowledge and Communication Skills sections of the NTE will be required to submit qualifying scores on the Praxis I Academic Skills Assessment to the CASE Office for admission to programs and student teaching. Information on the Praxis tests is available in the CASE Office, Hawkins Hall 302.

Required Courses (55 credits)

- COSC 236 Introduction to Computer Science I (4)
- PHYS 241 General Physics I (4)
- MATH 265 Elementary Linear Algebra (4)
- MATH 267 Introduction to Abstract Mathematics (4)
- MATH 273 Calculus I (4)
- MATH 274 Calculus II (4)
- MATH 275 Calculus III (4)
- MATH 301 History of Mathematics (3)
- MATH 330 Introduction to Statistical Methods (4)
- MATH 353 Euclidean and Non-Euclidean Geometries (3)
- MATH 423 Teaching Mathematics in Secondary Schools (3)
- MATH 426 Student Teaching in Secondary Education Mathematics (12)
- MATH 428 Senior Seminar in Mathematics Education (2)

Upper-Division Mathematics Electives (3-4 credits)

One course from the following:

- MATH 367 Theory of Numbers (3)
- MATH 467 Algebraic Structures (4)

Additional Elective (3-4 credits)*One course from the following:*

- PHYS 242 General Physics II (4)
- MATH 315 Applied Combinatorics (3)
- MATH 331 Probability (4)
- MATH 374 Differential Equations (3)
- MATH 377 Mathematical Models (3)
- MATH 379 Advanced Calculus (3)
- MATH 473 Introductory Real Analysis (4)

SECOND MAJOR PROGRAMS

Students may declare a second major and obtain a degree certifying that both majors have been completed. The Department of Mathematics encourages majors to pursue a second major or a minor in subjects in which mathematics is applied. In cooperation with the departments of Economics and Computer and Information Sciences, the following courses of study have been developed to enable students to obtain a second major in Economics or Computer Science.

DOUBLE MAJOR IN MATHEMATICS AND ECONOMICS

The Mathematics major with the second major in Economics requires 70-72 credits completed with a grade equivalent of 2.00 or higher.

Required Courses (55 credits)

- COSC 236 Introduction to Computer Science I (4)
- ECON 201 Microeconomic Principles (3)
- ECON 202 Macroeconomic Principles (3)
- ECON 309 Intermediate Price Theory (3)
- ECON 310 Macroeconomic Theory (3)
- ECON 313 Money and Banking (3)
- ECON 451 Introduction to Mathematical Economics (3)
- MATH 265 Elementary Linear Algebra (4)
- MATH 267 Introduction to Abstract Mathematics (4)
- MATH 273 Calculus I (4)
- MATH 274 Calculus II (4)
- MATH 275 Calculus III (4)
- MATH 331 Probability (4)
- MATH 332 Mathematical Statistics (4)
- MATH 377 Mathematical Models (3)
- MATH 490 Senior Seminar in Mathematics (2)

Upper-Division Mathematics Elective (9-11 credits)*Two courses from the following:*

- MATH 374 Differential Equations (3)
- MATH 435 Numerical Analysis I (3)
- MATH 436 Numerical Analysis II (3)
- MATH 437 Operations Research (4)

One course from the following:

- MATH 367 Theory of Numbers (3)
- MATH 451 Graph Theory (3)
- MATH 467 Algebraic Structures (4)
- MATH 473 Introductory Real Analysis (4)
- MATH 475 Complex Analysis (3)
- MATH 477 Topology (3)

DOUBLE MAJOR IN MATHEMATICS AND COMPUTER SCIENCE

The Mathematics major with the second major in Computer Science requires 91-95 credits completed with a grade equivalent of 2.00 or higher.

Required Core Courses (61 credits)

- COSC 236 Introduction to Computer Science I (4)
- COSC 237 Introduction to Computer Science II (4)
- COSC 280 Assembly Language and Computer Architecture (3)
- COSC 336 Data and File Structures (4)
- COSC 338 Computer Organization and Architecture (4)
- COSC 455 Programming Languages: Design and Implementation (3)

- COSC 439 Operating Systems (3)
- COSC 457 Database Management Systems (3)
- COSC 480 Senior Seminar (1) (COSC 418 may be selected as a substitute for COSC 480)
- MATH 263 Discrete Mathematics (3)
- MATH 265 Elementary Linear Algebra (4)
- MATH 267 Introduction to Abstract Mathematics (4)
- MATH 273 Calculus I (4)
- MATH 274 Calculus II (4)
- MATH 275 Calculus III (4)
- MATH 330 Introduction to Statistical Methods (4)
- MATH 435 Numerical Analysis I (3)
- MATH 490 Senior Seminar in Mathematics (2)

Upper-Division Electives (15-18 credits)**Computer Science***Either**Two courses (6 credits) from the following:*

- COSC 367 Discrete Structures (3)
- COSC 417 Introduction to the Theory of Computing (3)
- COSC 483 Design and Analysis of Algorithms (3)

and one course (3-4 credits) from the following:

- COSC 350 Data Communications and Networking (4)
- COSC 412 Software Engineering (3)
- COSC 415 Compiler Design (3)
- COSC 441 Computer Performance Evaluation (3)
- COSC 459 Computer Simulation and Modeling (3)

*Or**Two courses (6-7 credits) from the following:*

- COSC 350 Data Communications and Networking (4)
- COSC 415 Compiler Design (3)
- COSC 441 Computer Performance Evaluation (3)
- COSC 459 Computer Simulation and Modeling (3)

and one course (3 credits) from the following:

- COSC 367 Discrete Structures (3)
- COSC 483 Design and Analysis of Algorithms (3)
- COSC 417 Introduction to the Theory of Computing (3)
- COSC 461 Artificial Intelligence (3)
- COSC 471 Computer Graphics (3)

Mathematics

Two courses (6-8 credits) from the following (at least one must be selected from MATH 377, MATH 436, MATH 437 or MATH 451):

- MATH 331 Probability (4)
- MATH 374 Differential Equations (3)
- MATH 377 Mathematical Models (3)
- MATH 436 Numerical Analysis II (3)
- MATH 437 Operations Research (4)
- MATH 451 Graph Theory (3)
- MATH 457 Differential Geometry (3)
- MATH 467 Algebraic Structures (4)
- MATH 473 Introductory Real Analysis (4)
- MATH 475 Complex Analysis (4)
- MATH 477 Topology (3)

Science Requirements (15-16 credits)

A sequence of two courses taken from Physics, Biology or Chemistry must be accepted for majors in that discipline and must have the equivalent of 1 credit of laboratory work. Two additional science courses from Physics, Biology or Chemistry must be accepted toward the major in that discipline. PHYS 244, 303 and 337 are not counted.

GenEd Requirement

COMM 131 (completed with a grade equivalent of 2.00 or higher). This course can count for GenEd II.B.3.

MINOR IN MATHEMATICS

The minor in Mathematics requires 23-24 credits completed with a grade equivalent of 2.00 or higher. The minor requires 11-12 credits of specific courses plus at least 12 upper-division credits in Mathematics, excluding MATH 305, MATH 321, MATH 323, MATH 324, MATH 326 and MATH 423.

Required Courses (11-12 credits)

- MATH 267 Introduction to Abstract Mathematics (4)
 or
 MATH 263 Discrete Mathematics (3)
 MATH 273 Calculus I (4)
 MATH 274 Calculus II (4)

Upper-Division Mathematics Electives (12 credits)

Students must select at least 12 credit hours of upper-division electives in Mathematics, excluding MATH 305, MATH 321, MATH 323, MATH 324, MATH 326 and MATH 423.

ELEMENTARY EDUCATION MAJOR WITH A MATHEMATICS MINOR

Elementary Education majors who complete a Mathematics minor will possess the necessary concepts and skills to effectively teach both elementary and middle school mathematics. Special field-based courses are available so that students will experience teaching mathematics (specifically at the middle school level) in addition to the other elementary school subjects. Students in this program should be advised by faculty members in both the departments of Elementary Education and Mathematics. Early Childhood Education majors who wish to minor in mathematics should consult with faculty members in both the departments of Early Childhood Education and Mathematics for appropriate course work and counseling.

The minor in Mathematics for the Elementary Education major requires 25-26 credit hours, with each course completed with a grade equivalent of 2.00 or higher. Students must also complete requirements for their major as specified by the Department of Elementary Education. The minor requires the six courses listed below, plus at least 3 additional credits of upper-division electives in Mathematics.

Required Courses (22 credits)

- MATH 267 Introduction to Abstract Mathematics (4)
 MATH 273 Calculus I (4)
 MATH 274 Calculus II (4)
 MATH 301 History of Mathematics (3)
 MATH 330 Introduction to Statistical Methods (4)
 MATH 353 Euclidean and Non-Euclidean Geometries (3)

Upper-Division Mathematics Elective (3-4 credits)

One course from the following:

- MATH 305 Chance (3)
 MATH 315 Applied Combinatorics (3)
 MATH 326 The Mathematics of Information Science (3)
 MATH 331 Probability (4)
 MATH 367 Theory of Numbers (3)

MINOR IN APPLIED STATISTICS

The minor in Applied Statistics is designed to provide the knowledge and skills necessary for students to successfully enter quantitative career specialties within their chosen majors. It also provides an excellent background for students to successfully complete graduate studies and research within their chosen majors.

The minor in Applied Statistics requires six courses (18 to 21 credits) completed with a grade equivalent of 2.00 or higher. The minor consists of two required courses, three statistics electives, and one additional elective.

Required Courses (6-8 credits)

One course (3-4 credits) from the following:

- MATH 231 Basic Statistics I (3)
 MATH 237 Elementary Biostatistics (4)
 MATH 330 Introduction to Statistical Methods (4)
 MATH 332 Mathematical Statistics (4)
 ECON 205 Fundamental Statistics for Economics (3)
 PSYC 212 Behavioral Statistics (4)

One course (3-4 credits) from the following:

- MATH 211 Calculus for Applications (3)
 MATH 273 Calculus I (4)

Statistics Electives (9 credits)

Three courses from the following :

- MATH 333 Applied Regression and Correlation Analysis (3)
 MATH 334 Nonparametric Statistical Methods (3)
 MATH 335 Sampling Techniques (3)
 MATH 336 Statistical Methods in Quality Control (3)
 MATH 433 Applied Analysis of Variance (3)

Additional Elective (3-4 credits)

One additional course from among the statistics electives above or one course from the following:

- MGMT 263 Decision Sciences I
 ACCT 401 Auditing I (3)
 COSC 441 Computer Performance Evaluation (3)
 ECON 401 Introduction to Econometrics (3)
 EDUC 414 Educational Tests and Measurements (3)
 MATH 331 Probability (4)
 PSYC 411 Tests and Measurements (3)
 SOCI 391 Research Methods (3)

COURSE PREREQUISITES

The department strictly enforces prerequisites for all mathematics courses.

TRANSFER CREDIT POLICIES

Only courses approved by the Department of Mathematics may be applied to a major or minor program offered by the department. If students submit Mathematics credits that are more than five years old at the time of admission or readmission, the chair, after reviewing these records, may require that some courses be repeated or that a new course be completed.

Secondary Education Mathematics majors are required to take MATH 423, MATH 426, MATH 428, and at least four additional upper-division courses in their Mathematics major program at Towson University.

All other Mathematics majors are required to take MATH 490 (Senior Seminar in Mathematics) and at least six additional upper-division courses of their Mathematics major program at Towson University.

Mathematics minors must take at least four courses of their Mathematics minor program at Towson University; at least two courses must be at the upper-division level.

NOTES FOR MAJORS AND MINORS

Mathematics majors with minors in Economics may satisfy their Applications requirement by completing ECON 451.

Mathematics majors or minors who receive a grade equivalent of 1.00 in a 100-level course prerequisite to calculus must repeat the course no later than concurrently with calculus. Mathematics majors or minors must attain a grade equivalent of 2.00 or higher in any 200-, 300-, or 400-level course used as a prerequisite or applied toward a major or minor. Unless otherwise noted, prerequisites must be satisfied prior to taking a course. The program of the minor should be approved by students' department advisers.

GENERAL EDUCATION REQUIREMENTS IN MATHEMATICS

Students should consult those portions of this catalog describing their major and minor programs to see whether specific Mathematics courses are required or recommended.

The I-C (College Mathematics) category of the General Education requirements may be satisfied by any of the Mathematics courses listed below, except as noted. Students, however, should enroll in the Mathematics course for which they have the necessary high school or collegiate background and which is most relevant to their program of study. Placement tests may be used to help select the appropriate course.

MATH 105 is intended as a terminal Mathematics course and satisfies the GenEd I.C requirement.

MATH 111 is designed specifically for students majoring in Business, Economics, Psychology or the Social Sciences, and satisfies the GenEd I.C requirement.

MATH 115 and MATH 119 are designed specifically for students majoring in Mathematics, Computer Science, and the Physical or Biological Sciences, and either one satisfies the GenEd I.C requirement.

MATH 251 and the sequences of MATH 204-205 and MATH 206-207 are designed specifically for students majoring in Elementary or Early Childhood Education. Only the second course of each sequence (MATH 205 and MATH 207) satisfies the GenEd I.C requirement.

MATH 211, MATH 231, MATH 237, MATH 263, MATH 273, MATH 274 and MATH 275 are intended for students with additional previous preparation in Mathematics. Each one satisfies the GenEd I.C requirement.

MATH 293 is an honors course in Mathematics. It satisfies the GenEd I.C requirement.

The II.A.2 category (Science, Technology and Society) of the GenEd requirements may be satisfied by MATH 305.

MATHEMATICS COURSE NUMBERS

A note on the numbering system: the left digit of the course number indicates the level of the content. The middle digit of the course number indicates the area of the content: 0-general; 1-service; 2-mathematics education; 3-probability, statistics and numerical analysis; 5-geometry; 6-algebra; 7-analysis; 9-readings, special topics, and seminars in Mathematics.

Molecular Biology, Biochemistry and Bioinformatics Program

Director: Brian Masters

Affiliated Faculty: John Alexander (*Computer and Information Sciences*), Ali Behforooz (*Computer and Information Sciences*), Carol Berkower (*Biological Sciences*), Katherine Denniston (*Biological Sciences*), Charles Dierbach (*Computer and Information Sciences*), Gail Gasparich (*Biological Sciences*), John Grant (*Computer and Information Sciences*), Richard Hilton (*Biological Sciences*), L. Scott Johnson (*Biological Sciences*), David Larkin (*Chemistry*), Brian Masters (*Biological Sciences*), William Mechling (*Biological Sciences*), Richard Preisler (*Chemistry*), J. David Rawn (*Chemistry*), Lev Ryzhkov (*Chemistry*), Charles Schmitt (*Computer and Information Sciences*), Erik Scully (*Biological Sciences*), Linda Sweeting (*Chemistry*), Joseph Topping (*Chemistry*), Larry Wimmers (*Biological Sciences*), Alan Wingrove (*Chemistry*), H. Harry Zhou (*Computer and Information Sciences*)

OFFICE

Smith Hall 341, 410-830-3042

THE PROGRAM

The goal of the Molecular Biology, Biochemistry and Bioinformatics Program is two-fold: to train students in the specific disciplines of molecular biology, biochemistry and bioinformatics, and to engage them in the process of scientific inquiry so that they will have the ability to grow with their chosen discipline throughout their scientific careers. The Molecular Biology, Biochemistry and Bioinformatics major provides undergraduate preparation for students interested in biochemistry, bioinformatics, biophysics, biotechnology, cell biology, genetics, immunology, microbiology or molecular biology. The curriculum is also excellent for students interested in medical or dental school.

Students complete a curriculum that includes lecture and state-of-the-art laboratory courses, as well as an independent research project that emphasizes the practical application of discipline-based knowledge. Because of the emphasis placed on providing a practical understanding of the fundamental nature of the scientific discipline, students are assigned a faculty mentor who engages them in the process of scientific research from the outset of their undergraduate careers.

The major consists of three tracks: Molecular Biology, Biochemistry and Bioinformatics. The Molecular Biology Track examines the molecular basis of life, using molecular approaches to understand the processes of living systems, with applications in all areas of biology. The Biochemistry Track also examines the molecules of living systems, with emphasis on the chemical structure and reactivity that shape biological function. The Bioinformatics Track combines the study of the molecular basis of life with the study of computer science. All three tracks are interdisciplinary in their approach. Students choose a track after completing many of the core courses common to all three tracks.

Admissions Requirements

Effective in the 2000-2001 academic year, there may be a screening process in place for declaring the major in Molecular Biology, Biochemistry and Bioinformatics. Please consult the program advisers for details.

MAJOR IN MOLECULAR BIOLOGY, BIOCHEMISTRY AND BIOINFORMATICS

All students are required to complete 40 credits of core courses in the departments of Biological Sciences, Chemistry, and Computer and Information Sciences, and an additional 24-29 credits within one of the three tracks.

Common Core Requirements (40 credits)

CHEM 110-111	General Chemistry I, II (8)
BIOL 201	Cellular Biology and Genetics (4)
COSC 2xx	Introduction to Bioinformatics (4)
CHEM 331-332	Organic Chemistry I, II (10)
CHEM 351	Introductory Biochemistry (3)
BIOL 309	Genetics (3)
BIOL 409	Molecular Biology (3)
BIOL 4xx	Seminar in Bioethics (1)
BIOL 4xx	Seminar in Applied Molecular Biology (1)
BIOL 491	Independent Research in Biology (2-3)
	or
CHEM 491	Introduction to Research in Chemistry (1-3)
	or
COSC 495	Independent Study in Computer Science (3)

MOLECULAR BIOLOGY TRACK (25-29 credits)

BIOL 202	Evolution and Ecology (4)
PHYS 211-212	General Physics I, II (8)
	or
PHYS 203	Topics in Physics for Biology Majors *(5)
CHEM 210	Analytical Chemistry (4)
BIOL 408	Cell Biology (4)
BIOL 410	Molecular Biology Laboratory (2)
	or
BIOL 3xx	Genetics Laboratory (2)
Plus 3 credits of Biology electives	
One of the following:	
MATH 211	Calculus for Applications (3)
MATH 237	Elementary Biostatistics (4)
MATH 273	Calculus *(4)

* Note: Many graduate and professional programs require two semesters of physics and/or calculus. Students who are contemplating education beyond the undergraduate level (graduate school, medical school, etc.) need to talk with an adviser.

BIOCHEMISTRY TRACK (29-30 credits)

PHYS 211-212	General Physics I, II (8)
	or
PHYS 241-242	General Physics I, II (8)
CHEM 210	Principles and Methods of Chemical Analysis (4)
	or
CHEM 213	Introduction to Quantitative Analytical Chemistry (3)
	and
CHEM 215	Quantitative Analytical Chemistry Laboratory (2)
CHEM 340	Physical Chemistry (3)
CHEM 356	Biochemistry Laboratory (2)
CHEM 372	Intermediate Laboratory I (1)
CHEM 3xx	Biochemistry II (3)
MATH 273-274	Calculus I, II (8)

BIOINFORMATICS TRACK (28 credits)

COSC 236-237	Introduction to Computer Science I, II (8)
MATH 263	Discrete Mathematics (3)
MATH 273-274	Calculus I, II (8)
COSC 3xx	Computational Modeling (3)
COSC 4xx	Advanced Bioinformatics (3)
plus 3 credits of Computer Science electives	

Department of Physics, Astronomy and Geosciences

Professors: Harry Bates, Henry Chen, Jacob Huang, Mary Lu Larsen, Eddie Loh, Leon Ukens

Associate Professors: Rachel Burks, Robert Johnson, John Wessner (*Chair*)

Assistant Professors: Thomas Krause, Elmer Kreisel, David Schaefer

Research Assistant Professors: Karen Schaefer, Mark Wolfire

OFFICE

Smith Hall 445, 410-830-3020, 410-830-3021

Fax: 410-830-3511

www.towson.edu/physics/

PROGRAMS OF THE DEPARTMENT

The Department of Physics, Astronomy and Geosciences offers undergraduate programs leading to a Bachelor of Science or Bachelor of Arts degree in Physics or Geosciences (formerly the Natural Science major), a Physics Secondary Education Program, a Dual Degree in Engineering Program leading to a bachelor's degree in Physics from Towson University and a bachelor's degree in Engineering from the University of Maryland, College Park, and a Physics minor. There is also a five-year program leading to a B.S. degree in Physics and an M.S. degree in Computer Science.

MAJOR IN PHYSICS

The Physics major is divided into three main tracks designed to give the student the greatest possible flexibility in preparation for graduate study in physics, astrophysics, medicine, engineering, or other allied fields, and for professional practice as a physicist in industrial, governmental or institutional laboratories.

In order to provide students a broad and solid base in physics and also to provide the flexibility which enables students to take courses in areas where physics can be applied, all Physics majors take a series of basic Physics core courses. The first courses are General Physics I, II and III (PHYS 241, 242 and 243). They provide an introduction to both classical and modern Physics. The junior and senior core Physics courses treat classical and modern Physics in greater depth.

It is recommended that those who intend to pursue graduate studies in Physics or Astrophysics, take the General Physics Track or the Astrophysics Track, as well as additional physics electives and mathematics courses. Those who intend to participate in fundamental or applied research and development in industrial or government laboratories are encouraged to take the Applied Physics Track and other Physics electives. Calculus III is highly recommended. Upper-level Mathematics electives especially recommended are Differential Equations, Advanced Calculus, and Numerical Analysis I, II.

Students may also wish to elect a foreign language as preparation for graduate study. Students may also supplement the core program of study by participation in a guided independent study and/or ongoing research project. Up to 6 credit hours of such courses (Independent Study, Directed Reading, Research Problems, etc.) may count toward required Physics electives. A combination of well-grounded preparation in fundamentals plus the availability of an individually tailored program of study is designed to optimize students' preparation for graduate school or a professional career. In addition to Physics courses, all majors are required to complete courses in Computer Science, Mathematics and Chemistry. Students who intend to major in Physics should contact the department in order to be assigned a faculty adviser. The faculty adviser will assist students in planning a program which will meet their special needs. Advisers are also available for

advising on career opportunities and employment. Physics majors are required to complete 16, and minors 8, of the required upper-division credits in Physics at Towson. Students should be aware that most advanced Physics courses (300- and 400-level) may be offered in either the first semester or the second semester, but not in both semesters. Some Physics electives are only offered every other year. Advisers will have information on the courses offered and on the schedules.

Students *must* see their advisers no later than the time of their matriculation for the third semester in General Physics, which is normally the beginning of the spring semester of their sophomore year. Students, after consultation with their advisers, will propose a tentative plan for completing all graduation requirements, including those for the major. This selection of electives for the various concentrations must be approved by an adviser. The plan may be modified from time to time, but the modification must be approved by the major adviser. Students may also organize an individualized course of studies. This gives students the option to select a plan which reflects their interest in a special area of physics. The array of courses must have internal coherence and be *approved* by the major adviser.

REQUIREMENTS FOR THE PHYSICS MAJOR

The major in Physics requires 51-52 credits in Physics core and non-Physics requirements completed with a grade equivalent of 2.00 or higher, plus additional credits for specific tracks. The General Education requirements must also be completed.

Required Physics Core Courses (29 credits)

PHYS 241, 242, 243	General Physics I, II, III (4, 4, 3)
PHYS 307	Introductory Mathematical Physics (3)
PHYS 311	Modern Physics (4)
PHYS 341	Intermediate Physics Laboratory I (3)
PHYS 351	Mechanics I (4)
PHYS 354	Electricity and Magnetism I (4)

Non-Physics Requirements (22-23 credits)

CHEM 110-111	General Chemistry I, II (4, 4)
COSC 165	Visual Basic or equivalent (3)
MATH 273-274	Calculus I, II (4, 4)
MATH xxx	Upper-Division Mathematics Course (3-4)

Recommended mathematics electives are MATH 374, 379, 435-436

GENERAL PHYSICS TRACK

All required courses in this track must be completed with a grade equivalent of 2.00 or higher. The General Education requirements must be completed. The Physics core courses and the non-Physics requirements must be completed, as well as the following courses:

Advanced Physics Courses (18 credits)

PHYS 342	Intermediate Physics Laboratory II (3)
PHYS 455	Quantum Mechanics (3)
PHYS 485	Physics Seminar (1)

Two courses from among the following:

PHYS 352	Thermodynamics and Kinetic Theory (3)
PHYS 451	Mechanics II (3)
PHYS 454	Electricity and Magnetism II (3)
PHYS 457	Solid State Physics (3)
PHYS 459	Nuclear Physics (3)

Five credits of Physics Electives

Recommended Physics Electives

PHYS 335	Basic Electronics (4)
PHYS 352	Thermodynamics and Kinetic Theory (3)
PHYS 361	Optics Fundamentals (4)
ASTR 479	Selected Topics in Contemporary Astrophysics (3)
PHYS 421	Fundamental Particles (3)
*PHYS 451	Mechanics II (3)
PHYS 453	Physical Optics (3)
*PHYS 454	Electricity and Magnetism II (3)
PHYS 457	Solid State Physics (3)
PHYS 459	Nuclear Physics (3)

**Highly recommended for students planning to attend graduate school.*

APPLIED PHYSICS TRACK

All required courses in this track must be completed with a grade equivalent of 2.00 or higher. The General Education requirements must be completed. The Physics core courses and the non-Physics requirements must be completed, as well as the following courses:

Advanced Physics Courses (18 credits)

PHYS 342	Intermediate Physics Laboratory II (3)
PHYS 361	Optics Fundamentals (4)
PHYS 485	Physics Seminar (1)

One course from:

PHYS 335	Basic Electronics (4)
PHYS 337	Digital Electronics (4)
PHYS 437	Introduction to Microprocessor-Based Digital Systems (3)

One course from:

PHYS 453	Physical Optics (3)
PHYS 457	Solid State Physics (3)

Three or 4 credits of Upper-Level Physics Electives

Recommended Physics Electives

PHYS 335	Basic Electronics (4)
PHYS 337	Digital Electronics (4)
PHYS 352	Thermodynamics and Kinetic Theory (3)
PHYS 435	Electronics (3)
PHYS 437	Introduction to Microprocessor-Based Digital Systems (3)
PHYS 445	Lasers and Holography (3)
PHYS 453	Physical Optics (3)
PHYS 455	Quantum Mechanics (3)
PHYS 457	Solid State Physics (3)
PHYS 459	Nuclear Physics (3)
PHYS 461	Electro-Optics (4)

ASTROPHYSICS TRACK

All required courses in this track must be completed with a grade equivalent of 2.00 or higher. The General Education requirements must be completed. The Physics core courses and the non-Physics requirements must be completed, as well as the following courses:

Additional Physics and Astrophysics Courses (25 credits)

ASTR 161	General Astronomy I (4)
ASTR 331	Introduction to Astrophysics (3)
ASTR 3XX	Astrophysical Techniques (3)
ASTR 361	Astronomy II (3)
ASTR 423	Particle Astrophysics (3)
ASTR 470-479	Special Topics in Astrophysics (3)
ASTR 495	Capstone Project in Astrophysics (3)
PHYS 455	Quantum Mechanics (3)

PHYSICS SECONDARY EDUCATION PROGRAM

The Department of Physics, Astronomy and Geosciences offers a Physics Secondary Education Program that leads to a Bachelor of Science or Arts degree in Physics. This program is designed for those students who plan to teach physics at the secondary level.

Physics majors in the Secondary Education Program complete a total of 92-95 credits. In addition to the General Education requirements and the requirements specified by the Department of Secondary Education, students must complete 33 credits in Physics courses and 30 credits in non-Physics courses. For certification purposes (NSTA), students should include the course WRIT 312 (History of Science). All courses required for the major must be completed with a grade equivalent of 2.00 or higher.

Physics Core Courses (29 credits)

Additional Physics Courses (4 credits)

PHYS 342	Intermediate Physics Laboratory (3)
PHYS 485	Physics Seminar (1)

Non-Physics Requirements (30 credits)

BIOL 201	Biology I (4)
CHEM 110-111	General Chemistry I, II (4, 4)
COSC 165	Visual Basic (3)
MATH 273-274	Calculus I, II (4, 4)
WRIT 312	History of Science (3)
<i>Four credits from the following Earth Science courses:</i>	
GEOL 121	Physical Geology (4)
ASTR 161	General Astronomy I (3)
GEOL 357	Physical Oceanography (4)
PHSC 490	Independent Study (in observational astronomy) (1)

The Physics Secondary Education major also requires 29-32 credits of Secondary Education courses. For details and sequencing see the Department of Secondary Education listings in this catalog. To remain informed of current certification requirements, each student in this program must have an adviser in the Department of Secondary Education.

Requirement for Admission to Teacher Education Program

All students applying for admission to a Teacher Education Program at Towson University are required to complete a Criminal background Disclosure Form. This form is to be notarized and sent to the director of the Center for Applied Skills in Education (CASE) Office to be kept on file.

Requirement for Student Teaching/Internship

Effective fall 1999, all preservice students in Teacher Education programs at Towson University whose program of study requires an intensive/extensive internship or student teaching experience in a public or private school setting (pre-K through 12) will be required to undergo a criminal background check before entering this experience. The criminal background check must be filed with the director of CASE.

SUGGESTED COURSE SCHEDULES FOR PHYSICS MAJORS

By its very nature, physics is more hierarchical in its course structure than typical humanities or social science disciplines. Therefore, many courses depend heavily on prerequisite courses (such as calculus and general physics). Any time which is required to prepare for calculus, such as taking MATH 119, must be added to the four-year minimum. Normally, progress in mathematics and general physics is the pacesetter.

SUGGESTED COURSE SCHEDULE—GENERAL TRACK IN PHYSICS**FRESHMAN YEAR***First Semester (14 credits)*

CHEM 110	General Chemistry I (4)
ENGL 102	Writing for a Liberal Education (3)
	GenEd or Electives (3)

MATH 273 Calculus I (4)

Second Semester (15 credits)

CHEM 111	General Chemistry II (4)
COSC 165	Visual Basic (3)
MATH 274	Calculus II (4)
PHYS 241	General Physics I (4)

SOPHOMORE YEAR*First Semester (15 credits)*

MATHxxx	Upper-Division Math Elective (3/4)
	GenEd or Electives (7)
PHYS 242	General Physics II (4)

Second Semester (15 credits)

PHYS 243	General Physics III (3)
PHYS 307	Introductory Mathematical Physics (3)
PHYS xxx	Physics Elective (3)
	GenEd or Electives (6)

JUNIOR YEAR*First Semester (16 credits)*

PHYS 311	Modern Physics (4)
PHYS 341	Intermediate Physics Laboratory I (3)
PHYS 351	Mechanics I (4)
	Electives (5)

Second Semester (16 credits)

PHYS 342	Intermediate Physics Laboratory II (3)
PHYS 354	Electricity and Magnetism I (4)
PHYS xxx	Physics Elective (3)
	Electives (6)

SENIOR YEAR*First Semester (16 credits)*

PHYS 455	Introductory Quantum Mechanics (3)
PHYS 485	Physics Seminar (1)
PHYS xxx	Physics Elective (3)
	Advanced Writing course (3)
	Electives (6)

Second Semester (15 credits)

PHYS xxx	Physics Elective (5)
	Physics and Other Electives (10)

SUGGESTED COURSE SCHEDULE—APPLIED TRACK IN PHYSICS**FRESHMAN YEAR***First Semester (14 credits)*

CHEM 110	General Chemistry I (4)
ENGL 102	Writing for a Liberal Education (3)
	GenEd or Electives (3)
MATH 273	Calculus I (4)

Second Semester (15 credits)

CHEM 111	General Chemistry II (4)
COSC 165	Visual Basic (3)
MATH 274	Calculus II (4)
PHYS 241	General Physics I (4)

SOPHOMORE YEAR*First Semester (14-15 credits)*

PHYS 242	General Physics II (4)
MATH xxx	Upper-division Math Elective (3/4)
	GenEd or Electives (3)

Second Semester (13 credits)

PHYS 243	General Physics III (3)
PHYS 307	Introductory Mathematical Physics (3)
PHYS 3xx	300-level Electronics Elective (4)
	GenEd or Electives (3)

JUNIOR YEAR*First Semester (16 credits)*

PHYS 311	Modern Physics (4)
PHYS 341	Intermediate Physics Laboratory I (3)
PHYS 351	Mechanics I (4)
	Electives (5)

Second Semester (16 credits)

PHYS 342	Intermediate Physics Laboratory II (3)
PHYS 354	Electricity and Magnetism I (4)
PHYS 361	Optics Fundamentals (3)
	Electives (6)

SENIOR YEAR*First Semester (16 credits)*

PHYS 485	Physics Seminar (1)
PHYS xxx	Physics Electives (6)
	Advanced Writing Course (3)
	Electives (6)

Second Semester (15 credits)

PHYS xxx	Physics Electives (5)
	Physics and Other Electives (10)

SUGGESTED COURSE SCHEDULE — ASTROPHYSICS TRACK**FRESHMAN YEAR***First Semester (15 credits)*

ASTR 161	General Astronomy I (4)
CHEM 110	General Chemistry I (4)
ENGL 102	Writing for a Liberal Education (3)
MATH 273	Calculus I (4)

Second Semester (15 credits)

CHEM 111	General Chemistry II (4)
COSC 165	Visual Basic (3)
MATH 274	Calculus II (4)
PHYS 241	General Physics I (4)

SOPHOMORE YEAR*First Semester (15 credits)*

MATH xxx	Upper-Division Math Elective (3-4)
PHYS 242	General Physics II (4)
	GenEd or Elective (7-8)

Second Semester (15 credits)

ASTR 361	Astronomy II (3)
PHYS 243	General Physics III (3)
PHYS 307	Introduction to Mathematical Physics (3)
	GenEd or Electives (6)

JUNIOR YEAR*First Semester (16 credits)*

ASTR 331	Introduction to Astrophysics (3)
PHYS 311	Modern Physics (4)
PHYS 341	Intermediate Physics Laboratory I (3)
PHYS 351	Mechanics I (4)
	Electives (2)

Second Semester (16 credits)

ASTR 3XX	Astrophysical Techniques (3)
PHYS 354	Electricity and Magnetism I (4)
	Electives (9)

SENIOR YEAR*First Semester (16 credits)*

ASTR 495	Capstone Project in Astrophysics (3)
PHYS 455	Introductory Quantum Mechanics (3)
	Advanced Writing Course (3)
	Electives (7)

Second Semester (15 credits)

ASTR 423	Particle Astrophysics (3)
ASTR 47x	Special Topics in Astrophysics (3)
	Electives (9)

SUGGESTED COURSE SCHEDULE FOR THE PHYSICS SECONDARY EDUCATION MAJOR

Physics Secondary Education majors are not required to take any physics electives but are encouraged to take as many courses in Physics and Mathematics as possible. For a recommended course schedule, contact the Department of Physics, Astronomy and Geosciences.

MINOR IN PHYSICS

An important aspect of the overall contribution of physics is its impact on other disciplines. This program is designed to provide majors in any of the sciences, mathematics, business or humanities with a background in physics which will broaden their understanding and enhance their career opportunities. This program requires students to complete the following courses:

Required Courses (24 credits)

PHYS 241, 242, 243	General Physics I, II, III (4, 4, 3)
PHYS 311	Modern Physics (4)
PHYS xxx	Upper-division Physics Courses (9)

Students interested in the Physics minor program should consult the Physics minor adviser as soon as possible in order to design a program to meet their special needs.

To provide greater flexibility in selecting electives, students may organize their course of studies to supplement their major programs and/or reflect their special interests. The array of courses should have internal coherence and must be approved by their Physics minor adviser. At least 8 upper-division credits must be taken at Towson. A grade equivalent of 2.00 or higher must be earned in each course.

DUAL DEGREE ENGINEERING PROGRAM

Refer to the College of Science and Mathematics Dual Degree Programs section in this catalog.

BACHELOR OF SCIENCE IN PHYSICS AND MASTER OF SCIENCE IN COMPUTER SCIENCE

Refer to the College of Science and Mathematics Dual Degree Programs section in this catalog.

PHYSICS HONORS PROGRAM

The Department of Physics, Astronomy and Geosciences offers an honors program for students with superior scholarship in Physics. The honors program is designed to provide exceptional students with maximum opportunity for intensive study of Physics at an advanced level. Students with demonstrated ability will be invited by the department to participate in this program. These students will work closely with faculty members and will participate in an individualized program of research, directed readings and independent studies. Students who complete an approved program will receive a diploma with the designation of Bachelor of Arts or Bachelor of Science with Honors, and Departmental Honors will also appear on the transcript. For further information, contact the department chair.

EDWARD I. RUBENDALL PHYSICS ACHIEVEMENT AWARDS

The awards were established in honor of Professor Emeritus Rubendall by friends of the department. The awards are presented annually to outstanding juniors and seniors majoring in Physics.

MAJOR IN GEOSCIENCES

Coordinator: Rachel Burks

The Geosciences major offers a concentration in Geology and two interdisciplinary tracks designed to give a broad view of the sciences or to provide specialization in the Earth Sciences. The tracks available are Earth Science and General Science.

Students who plan geology-related careers, graduate school in the geological sciences, or secondary school earth science teaching should consider this major with a Geology Concentration. Students interested in this concentration should see the program coordinator early in their enrollment at the university.

Prospective secondary or middle school teachers of Earth Science are advised to select the Earth Science Track, while those who intend to teach General Science may find the interdisciplinary General Science Track more suited to their needs. Students intent on teaching careers need to plan their programs to meet state certification requirements and should have an adviser in the Department of Secondary Education as well as a science adviser. Students selecting either track should see Dr. Burks early in their enrollment.

Students selecting the Geosciences major should be aware that the interdisciplinary nature of the program necessitates many lower-division course credits. In order to meet the university requirement of 32 upper-division credits, some upper-division credits may be earned outside the major.

Students should also be aware that the requirements for entrance into graduate programs in science might only be met by the Geology Concentration.

A minimum of 25 credits applied toward completion of a concentration or a track must be taken at Towson University.

Requirements for the Major

The following core courses are required for all concentrations in the Geosciences major. Students in the Geology Concentration may substitute MATH 273 (Calculus I) or MATH 231 (Basic Statistics) for COSC 165 (Visual Basic).

Core Courses (36-38 credits)

BIOL 201-202	Biology, I, II (4, 4)
	<i>or</i>
BIOL 110	Contemporary General Biology (4)
	<i>and either</i>
BIOL 205	General Botany (4)
	<i>or</i>
BIOL 207	General Zoology (4)
CHEM 110-111	General Chemistry I, II (4, 4)
PHYS 211-212	General Physics I, II (4, 4)
	<i>or</i>
PHYS 241-242	General Physics, I, II (4, 4)
PHSC 121	Physical Geology (4)
COSC 165	Visual Basic (3)
MATH 115	Mathematics for the Sciences (3)
	<i>or</i>
MATH 119	Precalculus (4)

Undergraduate Research (2-3 credits)

One of the following:

BIOL 491	Independent Research in Biology (3)
PHSC 401	Advanced Laboratory in Physical Science (3)
CHEM 391	Special Problems in Chemistry (3)

GEOLOGY CONCENTRATION (16 credits)

The Geology Concentration requires 27-28 credits (in addition to the core courses) completed with a grade equivalent of 2.00 or higher.

GEOL 123	Historical Geology (4)
GEOL 323	Geomorphology (4)
GEOL 321	Structural Geology (4)
GEOL 331	Mineralogy (4)
GEOL 333	Igneous and Metamorphic Petrology (4)

Electives (11-12 credits)

Students complete three additional upper-division courses in Geology or two such courses and BIOL 307, Introduction to Paleontology.

EARTH/SPACE SCIENCE TRACK

The Earth Science Track requires 24-25 credits (in addition to the core courses) completed with a grade equivalent of 2.00 or higher.

Required Courses (13 credits)

GEOG 373	Climatology (3)
GEOG 377	Meteorology (4)
ASTR 161	Astronomy I (3)
GEOL 357	Physical Oceanography (3)

Electives (11-12 credits)

Eleven or 12 credits should be chosen from the following:

	Any upper-division Geology course(s).
GEOL 123	Historical Geology (4)
ASTR 361	Astronomy II (3)
BIOL 307	Introduction to Paleontology (4)
	Selected upper-division Geography courses (by consent of adviser)

GENERAL SCIENCE TRACK

The General Science track requires 27 credits (in addition to the core courses) completed with a grade equivalent of 2.00 or higher.

Required Courses

BIOL 213-214	Human Anatomy and Physiology I, II (4, 4)
BIOL 402	General Ecology (4)
PHSC 161	Astronomy I (3)

Electives (12 credits)

Any upper-division courses in astronomy, biology, chemistry, geography, geology or physics. (Upper-division Geography courses must be approved by the adviser and may total no more than 6 credits).

MINOR IN GEOLOGY

The geological sciences provide an important perspective to fields like environmental science, environmental studies, and geography and environmental planning. The minor in Geology program is designed to furnish majors in sciences, humanities, business, or the arts with a background that will enrich their education and deepen their understanding of the earth around them, particularly its materials, processes, history, and environmental challenges. Students in the Geology minor are required to complete the following courses:

Required Courses (24 credits)

GEOL 121	Physical Geology (4)
GEOL 123	Historical Geology (4)
GEOL xxx	Upper-division geology courses (16)

Students in the Geology minor should consult with a Geology adviser as soon as possible to design a program to meet their particular needs and interests.

NEW PROGRAMS (pending approval)

Two new baccalaureate programs, the B.A./B.S. in Geology and the B.A./B.S. in Earth/Space Sciences are pending approval by the Maryland Higher Education Commission and may be available in fall 2000. See Rachel Burks in the Department of Physics for current information on any of these programs.

The B.A./B.S. in Geology contains a core of 44-45 credits in the geological, physical and mathematical sciences. Students in the Geology major select one of two tracks: General Geology or Environmental Geology. Core requirements for either track include a capstone experience in geological field- and/or laboratory-based research. This educational background will enable Geology graduates to pursue employment opportunities in environmental geology, hydrogeology, minerals exploration, geotechnology, or to pursue postgraduate studies in Geology.

The B.A./B.S. in Earth/Space Sciences requires 46 credits in the earth, oceanographic, atmospheric, physical, and astronomical sciences, and will enable graduates to pursue employment in a number of geotechnical fields. The track in Secondary Education requires an additional 41-credit professional secondary education sequence and is designed to certify graduates to teach earth/space sciences at the secondary level in the state of Maryland.

Dual Degree Programs

Towson University offers a Dual-Degree Engineering Program with the University of Maryland, College Park (UMCP), and a Dual Degree Program in Medicinal Chemistry with the University of Maryland School of Pharmacy. In addition, Towson offers a five-year program for students interested in obtaining a B.S. degree in Physics and an M.S. degree in Computer Science. These programs are described below.

DUAL-DEGREE ENGINEERING PROGRAM

OFFICE

Smith Hall 445, 410-830-3020

www.towson.edu/physics/

The objective of the Dual Degree Engineering Program at Towson University is to provide an educational opportunity for students interested in both a "liberal science" and a professional education at the undergraduate level. Students choosing this program will be able to obtain a Bachelor of Science or Arts degree from Towson, and a Bachelor of Engineering degree from UMCP. In principle, students can seek a degree in any discipline offered by Towson; but in practice, Biology, Chemistry, Computer Science, Mathematics, and Physics are the natural choice of students interested in the Dual Degree program.

Dual degree candidates from Towson are eligible to seek a baccalaureate degree majoring in any one of the following areas at the University of Maryland:

Aerospace Engineering	Fire Protection Engineering
Biological Resources Engineering	Mechanical Engineering
Chemical Engineering	Materials Science
	Engineering
Civil Engineering	Nuclear Engineering
Electrical Engineering	B.S. in Engineering

Requirements for Dual Degree Students While at TU

1. complete required courses in Dual Degree Study Program
2. complete a minimum of 90 semester hours
3. complete General Education (GenEd) requirements
4. complete a major program (with transfers from UM approved by department)
5. obtain recommendation from chair of TU major department

Requirements for Admission to UMCP as a Dual Degree Student

In order for students to become a Dual Degree candidates at UMCP, they must have satisfied TU requirements and, in addition, have the following:

1. a cumulative grade point average at TU of 2.00 or better.
2. a recommendation from the designated official at TU.

Admission to the College of Engineering of UMCP is guaranteed to TU Dual Degree students, providing the above requirements have been satisfied.

In order to be eligible for transfer into the engineering program of their choice at University of Maryland, College Park, students must have included in their work at Towson the following courses:

CHEM 110-111	General Chemistry I, II (8)
COSC 236	Introduction to Computer Science I (4)
MATH 273-274- 275	Calculus I, II, and III (12)
MATH 374	Differential Equations (3)
PHYS 241-242-243	Physics I, II, and III (11)
PHYS 351	Mechanics I (4)
PHYS 352	Thermodynamics and Kinetic Theory (3)

Additional required courses for Dual Degree students at TU for selected majors are listed below.

Courses at Towson University	Equivalent Courses at UMCP
Students interested in Biological Resources Engineering must take the following courses at TU:	

BIOL 201	Biology I: Cellular Biology and Genetics (4)	BIOL 105
BIOL 215	Foundations of Microbiology (4)	MICB 200
ECON 202	Macroeconomic Principles (3)	ECON 201
BIOL 408	Cell Biology (4)	ZOOL 201

Students interested in Chemical Engineering must take the following courses at TU:

CHEM 331, 332	Organic Chemistry I, II (5, 5)	CHEM 233, 243
CHEM 341, 342	Physical Chemistry I, II (3, 3)	CHEM 481, 483
CHEM 373, 374	Intermediate Lab I, II (1, 1)	CHEM 483

Students interested in Civil Engineering must take the following courses at TU.

CHEM 330	Essentials of Organic Chemistry (5)	CHEM 237
MATH 330	Introduction to Statistical Methods (4)	ENCE 302

Students interested in Electrical Engineering must take the following courses at TU:

PHYS 354,		
454	Electricity and Magnetism I, II (4, 3)	ENEE 380, 381
PHYS 335	Basic Electronics (4)	ENEE 204
PHYS 337	Digital Electronics (4)	ENEE 244
		ENEE 206
PHYS 311	Modern Physics (4)	PHYS 421

Students interested in Materials Engineering must take the following courses at TU:

PHYS 335	Basic Electronics (4)	ENEE 204
CHEM 331	Organic Chemistry I, II (5)	CHEM 233
	or	
CHEM 341	Physical Chemistry I (3)	CHEM 481

DUAL DEGREE PROGRAM IN MEDICINAL CHEMISTRY WITH THE UNIVERSITY OF MARYLAND SCHOOL OF PHARMACY

Program Director: Frank Milio

OFFICE

Smith Hall 353 or 561, 410-830-3042 or 410-830-3131

E-mail: fmilio@towson.edu

The program requires prepharmacy students to study chemistry at Towson University for three years prior to application and acceptance into the Doctor of Pharmacy (Pharm.D.) program at the University of Maryland School of Pharmacy. The three years at Towson University, combined with successful completion of the first two years of study in the School of Pharmacy, will provide the student the credits and understanding needed to meet the requirements for the B.S. or B.A. degree in Medicinal Chemistry from Towson University. Heretofore, students attending Towson University for two or three years, being admitted to the School of Pharmacy, would not receive a baccalaureate degree. This 3 + 4 dual degree program between Towson University and the University of Maryland School of Pharmacy provides students the opportunity to broaden their background and allows them flexibility of career options as summarized below.

Dual Degree Program and Options

<i>After Completing</i>	<i>Decision Points (Career Options)</i>
Three years at Towson University	<ul style="list-style-type: none"> Continue studies for B.S. or B.A. in Medicinal Chemistry at University of Maryland School of Pharmacy (contingent upon admission to the program) Pursue B.S. or B.A. at TU (Chemistry; Environmental Science; Molecular Biology, Biochemistry and Bioinformatics)
five years (3 years at TU and 2 years at UMD School of Pharmacy)	<ul style="list-style-type: none"> Earn B.S. or B.A. in Medicinal Chemistry from TU and continue in the Pharm.D. program at UMD Earn B.S. or B.A. in Medicinal Chemistry at TU and pursue other postbaccalaureate study Earn B.S. or B.A. in Medicinal Chemistry at TU and enter marketplace
Seven years (3 years at TU and 4 years at UMD School of Pharmacy)	<ul style="list-style-type: none"> Complete Pharm.D. at UMD and enter the marketplace Complete Pharm.D. and continue Ph.D. specialization *

*combined Pharm.D./Ph.D. or Pharm.D./MBA programs are available at University of Maryland School of Pharmacy

Towson University Admission Requirements

Applicants must meet the requirements for undergraduate admission to Towson University. After completing three years of study as outlined below at Towson, the student must apply and be admitted to the School of Pharmacy at University of Maryland to complete the dual degree program.

Towson University Requirements (90 credit hours)

Leading to B.S. or B.A. in Medicinal Chemistry

General Education Requirements (33 credits)

Courses including English composition, literature, humanities and physical and social sciences in 14 General Education (GenEd) categories:

Chemistry (26 credits)

CHEM 110 General Chemistry I (4)
 CHEM 111 General Chemistry II (4)
 CHEM 331 Organic Chemistry I (5)
 CHEM 332 Organic Chemistry II (5)
 CHEM 213 Introduction to Quantitative Analytical Chemistry (3)
 CHEM 215 Quantitative Analytical Chemistry Laboratory (2)
 CHEM 351 Introductory Biochemistry (3)

Biology (8 credits)

BIOL 201 Cellular Biology and Genetics (4)
 BIOL 315 Medical Microbiology (4)

Physics (8 credits)

PHYS 211 General Physics I (4)
and
 PHYS 212 General Physics II (4) (*Non-Calculus based*)
or
 PHYS 241 General Physics I (4)
and
 PHYS 242 General Physics II (4) (*Calculus based*)

Mathematics (8 credits)

MATH 273 Calculus I (4)
 MATH 237 Elementary Bio-statistics (4)

Electives (7 credits)**Pharm.D. Admission Requirements**

To be considered for admission, applicants must:

- Submit a completed application, transcripts of all higher education institutions attended, and the Pharmacy College Admission Test (PCAT) scores.
- Have an overall minimum quality point average (QPA) of 2.50.

Students having average QPAs of 3.50 or better and PCAT scored in the 80th percentile, and with strong backgrounds in biology and chemistry, are competitive for admission to the program. Good written and verbal communication skills are essential in the program and in the profession of pharmacy. Students considered for admission are invited to admission interviews each spring with faculty, students and alumni.

University of Maryland School of Pharmacy (31 credits)

(Currently required courses in the Pharm. D. program taken in the first two years.)

Chemistry (14 credits)

PHAR 513 Drug Chemistry (2)
 PHAR 521 Biochemistry II (3)
 PHAR 526 Physical Chemistry (2)
 PHAR 531 Pharmaceutical Chemistry (2)
 PHAR 542 Clinical Chemistry (2)
 PHAR 544 Medicinal Chemistry (3)

Biology (17 credits)

PHAR 512 Cell Biology (2)
 PHAR 514 Human Biology I (3)
 PHAR 524 Human Biology II (3)
 PHAR 525 Immunology (2)
 PHAR 533 Microbiology (2)
 PHAR 534 Human Biology III (3)
 PHAR 544 Microbiology II (2)

BACHELOR OF SCIENCE IN PHYSICS AND MASTER OF SCIENCE IN COMPUTER SCIENCE

OFFICE

Smith Hall 445, 410-830-3020

The Department of Physics, Astronomy and Geosciences and the Department of Computer and Information Sciences offer a “four-one” program which will lead to the degrees B.S. in Physics and M.S. in Computer Science in five years. Students can satisfy the requirements for a Physics major and graduate with their class. By taking additional Computer Science courses as their free electives, they will be able to take 6 to 9 hours of graduate Computer Science courses in their senior year. (These graduate courses will not be counted toward their undergraduate degree requirements.) The remaining courses and thesis requirements for the M.S. in Computer Science would then be completed in a fifth year.

This option is especially attractive to students who are considering dual majors in Physics and Computer Science or who are planning a career in the area of computational sciences.

Those students interested in the “four-one” program should declare their intent by the end of the second (sophomore) year and meet with Dr. Behforooz, the Computer Science graduate coordinator, early in the fall of the third (junior) year.

Required Courses in Computer and Information Sciences and Mathematics

- | | |
|-----------|---|
| MATH 263 | Discrete Mathematics (3) |
| *COSC 236 | Introduction to Computer Science I (4) |
| COSC 237 | Introduction to Computer Science II (4) |
| COSC 280 | Assembly Language and Computer Architecture (3) |
| ‡COSC 336 | Data and File Structures (4) |
| COSC 338 | Computer Organization and Architecture (4) |
- *COSC 236 will replace the Physics requirement of COSC 165
 Students may take PHYS 337 and PHYS 437 in place of COSC 280 and COSC 338.
 ‡Students completing COSC 236 and COSC 237 with a grade equivalent of 3.00 or higher are exempt from taking COSC 336.

Pre-Professional Programs

The College of Science and Mathematics offers pre-professional preparation in medicine, dentistry, pharmacy, physical therapy and veterinary medicine. In addition, the college offers postbaccalaureate premedical and predental programs for students who decide to pursue medicine or dentistry after completing their bachelor's degree. The programs are described below.

PREMEDICAL AND PREDENTAL PROGRAM—UNDERGRADUATE AND POSTBACCALAUREATE

Program Director: Frank R. Milio

OFFICE

Smith Hall 353 or 561, 410-830-3042 or 410-830-3131

E-mail: fmilio@towson.edu

www.towson.edu/csm/premed

Students who are interested in a career in medicine or dentistry must keep the following facts in mind during their studies:

- (a) Students must have an *outstanding academic record* in all the courses they take—science and otherwise—to be competitive for admission to medical or dental school.
- (b) Most students who are admitted to medical or dental school have a B.S. or B.A. degree. A very few exceptional students are admitted to professional school with the minimum required 90 credits of university work.
- (c) The B.S. or B.A. degree may be in any discipline, but most students get their degree in one of the sciences. However, all students must take the science courses that are required by the professional schools and listed under Required Courses below.
- (d) Students interested in medical or dental school usually take the Medical College Admission Test (MCAT) or the Dental Aptitude Test (DAT) one to one and one-half years in advance of entering professional school. Advance application must be made to take the MCAT which is administered in April and August. The computerized DAT is given throughout the year. Students are strongly urged to prepare for the MCAT or DAT, either on their own or by taking a commercial preparation course.
- (e) Letters of recommendation are required, and at Towson University these letters are prepared by the Premedical/Predental Committee.
- (f) Careful planning and organization on the part of the student are an absolute necessity.

Information should be obtained from the Premedical and Predental Committee before or upon entering Towson University. Write to the Premedical and Predental Committee, Department of Biological Sciences, Towson University, Towson, MD 21252 or call 410-830-3042. Information may also be obtained on the Internet at <http://www.towson.edu/csm/premed>.

Requirements for Admission to Medical or Dental School

A student must have an outstanding undergraduate record to be competitive for admission to medical or dental school. Criteria used by professional schools to evaluate applicants include:

1. academic achievement with emphasis on performance in biology, chemistry, mathematics and physics
2. scores on the Medical College Admission Test (MCAT) or Dental Admission Test (DAT)

3. motivation to pursue a career in medicine or dentistry
4. clinical and/or research experience
5. participation in extra-curricular activities
6. letter of recommendation prepared by the applicant's undergraduate Premedical/Predental Committee
7. interview with members of the medical or dental school admissions committee

Letters of recommendation written by the Towson University Premedical/Predental Committee are based upon evaluation of Items 1–5 above as well as letters of evaluation obtained by students from science faculty of their choosing and an interview with members of the Committee.

Although educational philosophies and specific undergraduate course requirements differ among the nation's medical and dental schools, these institutions recognize the value of a broad-based undergraduate education including a strong foundation in the natural sciences (biology, chemistry, physics and mathematics), well-developed communication skills, and a solid background in the humanities and social sciences.

Required and Recommended Science Courses

Premedical and predental students, regardless of their major, must take the required courses as part of their curriculum. Students are also advised to take as many of the highly recommended courses as possible as these courses should help improve their performance on the MCAT or DAT exams.

Required Courses (34 credits)*

BIOL 201	Biology I: Cellular Biology and Genetics (4)
BIOL xxx	elective (4)
CHEM 110	General Chemistry I (4)
CHEM 111	General Chemistry II (4)
CHEM 331	Organic Chemistry I (5)
CHEM 332	Organic Chemistry II (5)
PHYS 211	General Physics I (4)**
PHYS 212	General Physics II (4)**

*All of the required courses should be completed before taking the MCAT or DAT exams. Some medical schools also require calculus and/or other specific courses, and students should determine the admission requirements of the schools they are especially interested in attending.

**PHYS 241 Physics I and PHYS 242 Physics II, both of which require calculus, may be taken in place of PHYS 211, 212. PHYS 241, 242 must be taken by Physics, Chemistry, and Mathematics majors.

Highly Recommended Courses

MATH 115	Basic Mathematics for the Sciences (3) (Students are encouraged to take other mathematics courses, such as calculus, to meet the requirements of specific medical schools.)
BIOL 213	Human Anatomy and Physiology I (4)
BIOL 214	Human Anatomy and Physiology II (4)
BIOL 309	Principles of Genetics (3)
BIOL 408	Cell Biology (4)
BIOL 409	Molecular Biology (3)
CHEM 351	Introductory Biochemistry (3)

Undergraduate Premedical/Predental Program

Undergraduate students may obtain the B.S. or B.A. degree in any major but must take the Required Courses and should take as many of the Highly Recommended Courses as possible before applying to professional school. Most premedical and predental students major in Biology, Chemistry or Physics, and many Biology majors select the Premedicine/Predentistry Concentration offered in the Department of Biological Sciences.

To get an undergraduate degree from Towson University requires a minimum of 120-credit hours. This includes the completion of the General Education (GenEd) requirements and the courses required for a major (approximately 36-credit hours).

Postbaccalaureate Premedical/Predental Program

Towson University offers a Postbaccalaureate Premedical/Predental program for students whose career goals have shifted to medicine or dentistry after completing their bachelor's degree. This program permits them the opportunity to complete the undergraduate science and mathematics courses required for admission to medical or dental school. This program is designed for students who received their undergraduate degree in a non-science or science area but who did not take the courses required to prepare them for admission to professional school. It is not a remedial program but is designed for outstanding preprofessional candidates who have not applied for admission to medical or dental school and who have not taken the MCAT or DAT examinations. This program is designed for completion in 12–14 months, including courses during the summer sessions. Although the courses can be completed in 12–14 months and many professional schools seem to prefer this concentrated approach, the Postbaccalaureate Premedical/Predental program at TU does offer flexibility to those students needing more time to complete the courses which are usually offered in the summer and evening and during the academic year. Students must take the Required Courses mentioned above and as many of the Highly Recommended Courses as possible. (A background and knowledge of algebra and trigonometry is assumed for the Required Courses, and students having a weak background in either one should plan to review this material before starting the program.)

Each student in the program is assigned a faculty adviser from the Premedical/Predental Committee to assist each one with planning their course of study, with the application process, and with course registration. In addition to formal course work, postbaccalaureate students are encouraged to obtain practical experience in a medical or dental setting before applying to professional school.

Eligibility: To be eligible for admission to the Postbaccalaureate Premedical/Predental Program, a student must have completed a bachelor's degree at an accredited college or university. Students preparing for admission to medical school should have a minimum undergraduate grade point average (GPA) of 3.40, and those interested in dental school a minimum 3.00 GPA.

Application and Further Information: The deadline for application is March 1, but earlier applications will be reviewed beginning September 15. An interview with a member of the Premedical/Predental Committee is required after initial screening of the application documents. For information regarding the application process, including application forms, (a) write the Premedical/Predental Committee, Department of Biology, Towson University, Towson, MD 21252, (b) call 410-830-3042, or (c) e-mail fmilio@towson.edu.

Cost: The Towson University tuition and fees for students in the Postbaccalaureate Premedical/Predental program are the same as those for undergraduates and depend on the student's residency—in-state or out-of-state. These costs are competitive with other schools offering the same program. Fee information will be provided along with the request for an application and additional information. Students admitted to this program are eligible to apply for certain student loans because they are classified as second-degree students.

PREPHARMACY PREPARATION

Program Director: Frank Milio

OFFICE

Smith Hall 353, 410-830-3131

E-mail: fmilio@towson.edu

Students planning a career in pharmacy may apply to a College of Pharmacy after taking or expecting to complete a total of 63 semester hours of university credit, including the required core courses. Student averages are evaluated in the following four areas: (a) overall college work, (b) required core courses, (c) chemistry courses, and (d) mathematics and physics courses. In addition, applicants are required to satisfactorily pass the Pharmacy College Admission Test (PCAT), followed by a personal interview by the admission committee of the pharmacy school.

Required core courses include 6 credits of English, 6 credits of Mathematics (through Calculus I), 8 credits of Biology, 8 credits of Physics, and 16-18 credits of Chemistry. The remaining credits (18-20) include elective courses, such as Introduction to Sociology, Economic Principles and Problems, Public Speaking, Modern Languages, Art, Music, General Psychology, Botany, Biology and Computer Programming.

Students interested in pharmacy as a professional career should consult with the prepharmacy adviser in the Department of Chemistry upon admission to Towson University. Students need to plan a course program, declare an academic major, and become cognizant of the specific admissions requirements of the pharmacy college that they plan to attend. The recommended course sequence is based upon the requirements of the University of Maryland and is typical of most pharmacy schools, with the exception that some also include in their core courses requirements 6 credits of biology and 3 credits of economics.

Prepharmacy Course Requirements

BIOL 110 Contemporary General Biology (4)

BIOL 315 Medical Microbiology (4)

or

BIOL 318 Microbiology (4)

CHEM 110 General Chemistry I (4)

CHEM 111 General Chemistry II (4)

ENGL 102 Writing for a Liberal Education (3)

MATH 119 Pre-Calculus (4)

MATH 231 Basic Statistics (3)

or

MATH 237 Elementary Biostatistics (4)

MATH 273 Calculus I (4)

GenEd I.B course (3)

CHEM 331 Organic Chemistry I (5)

CHEM 332 Organic Chemistry II (5)

PHYS 211* General Physics I (4)

PHYS 212* General Physics II (4)

*Physics 241 and 242 can be substituted for the above, but these two courses require calculus as a prerequisite

PHYSICAL THERAPY PREPARATION

Program Director: M. Lauterbach

OFFICE

Smith Hall 341, 410-830-3127

In recent years, most physical therapy programs in the United States have converted to graduate programs. Entry into these programs is highly competitive, and prerequisites vary. The minimum requirements for application to most physical therapy programs include 90 credits. Because of the strong emphasis on science courses, which typically includes one year of chemistry, one year of physics, statistics and other mathematics courses, and at least four courses in biology, many students choose Biology as their major. However, any major is acceptable, so long as specific undergraduate prerequisites for individual schools are completed. A typical first-year student curriculum at Towson University might include chemistry, biology and mathematics. Towson provides advising to assist students with their undergraduate preparation for this field.

PREVETERINARY PREPARATION

Program Director: William H. Mechling

OFFICE

Smith Hall 341, 410-830-3027

wmechling@towson.edu

Students planning a career in veterinary medicine should be aware of the following considerations as they prepare for admission to veterinary school:

- To be admitted to these very selective schools, students must have an outstanding record, usually with a minimum of 90 undergraduate credits.
- Most entering veterinary students have a B.S. or B.A. degree with a major in Biology or Chemistry, although other specific disciplines may be acceptable if basic courses in biology, chemistry, physics and mathematics are included.
- Although there are no specific tests required for admission to some veterinary schools, many request indications of aptitude as reflected in SAT I, GRE, or other standardized examinations.
- Veterinary schools expect applicants to have experience in aiding or assisting a veterinarian or working in adjunct fields as a volunteer or paid assistant. Varied experience, including research, is considered valuable.
- Advising for preveterinary students is available through the Department of Biological Sciences. It is strongly suggested that students seek these advisory services upon entering Towson University to maximize their career planning strategies.

Careful planning and early contact with veterinary schools is crucial. For further information, contact Professor William H. Mechling, Department of Biological Sciences.





Interdisciplinary Programs

Interdisciplinary programs have become an increasingly important part of Towson University's role as a premier metropolitan university. The rise of new interdisciplinary fields and revision of traditional curricula are reflected in the diverse group of programs listed here. These programs enhance the strong liberal arts and sciences core while preparing students for professional and applied fields. They also provide opportunities for new forms of student learning and build on the strengths of the faculty.

As Towson University strives to provide all of its students with the knowledge and skills for entry into the professional world, interdisciplinary programs will continue to expand throughout the curriculum. These programs will also help to create an environment that stimulates commitment to lifelong learning and allows for continued personal growth.

These interdisciplinary programs are described in detail elsewhere in this catalog.

Donna Wagner, Coordinator

- Cultural Studies
- Environmental Science and Studies
- Family Studies
- Gerontology
- Honors College
- Interdisciplinary Studies
 - African-American Studies
 - American Studies
 - Animal Behavior
 - Asian Studies
 - Business, Communication and the Liberal Arts Minor
 - Classical Studies Minor
 - Comparative Ethnic Studies
 - Irish Studies Minor
 - Jewish Studies Minor
 - Latin American Studies
 - Lesbian and Gay Studies Minor
 - Medieval and Renaissance Studies
 - Prelaw
 - Religious Studies
- International Studies
- Law and American Civilization
- Metropolitan Studies
- Social Sciences
- Sport Management
- Sport Studies
- Women's Studies

OFFICE
Linthicum Hall 308A, 410-830-4643

CULTURAL STUDIES

OFFICE

Linthicum Hall 218G, 410-830-2943

Director: David Bergman

Cultural Studies examines cultural expressions: kinship patterns; religion; folk, popular, middle-brow and avant-garde arts; politics; entertainment; medical procedures; technologies; and the economy. It focuses on these as interconnected, interactive, and as forming a system of meaning. To understand any one cultural manifestation involves seeing it in relation to others. How one draws connections, where one draws connections, and why one draws connections between various manifestations of culture are issues of debate among its students. A cultural studies program is not meant to take any side in this debate. Rather, it provides students with a variety of tools to examine the connections between disciplines and cultural expressions and a range of materials to examine. It seeks to familiarize students both with a number of disciplines and ways to break down the barriers between them. Finally it will help students find ways of expressing the connections they have made.

For more information about this program, see the College of Liberal Arts.

ENVIRONMENTAL SCIENCE AND STUDIES

OFFICE

Smith Hall 348, 410-830-4920

Director: Jane Wolfson

The Environmental Science and Studies Program has two primary educational objectives. One is to provide the fundamental scientific, technical and social knowledge that program graduates will need to assess, plan and evaluate environmental concerns, particularly those confronting metropolitan regions. The second is to instill the wide range of cognitive skills and content mastery that students will need to effectively analyze environmental issues and propose realistic plans for solving environmental problems at local, regional and national levels.

The core requirements of the program are structured to meet these two objectives and include mathematical and scientific foundations as well as extensive interdisciplinary study related to environmental issues. The required capstone seminar integrates students' programs of study, and the senior internship/research requirement gives first-hand practice in an environmental field. The environmental problems addressed in many classes and seminars will focus on the adjacent urban/suburban environment and its impact on the surrounding regions.

Most environmental problems resist solutions from any single discipline. To counter this dilemma, the program utilizes a rigorous interdisciplinary approach. The curriculum draws upon the expertise of faculty in the areas of biology, chemistry, geology, mathematics, physics, environmental ethics and values, public policy, economics, geography, public health and social change.

The Environmental Sciences and Studies Program has two concentrations: Environmental Science and Environmental Studies. For more information about the Environmental Science Concentration, see the College of Science and Mathematics. For more information about the Environmental Studies Concentration, see the College of Liberal Arts.

FAMILY STUDIES

OFFICE

Linthicum Hall 301H, 410-830-2849

Director: Sandra Carson Stanley

The Family Studies Program offers an undergraduate degree in family studies that leads to a Bachelor of Arts or a Bachelor of Science degree. The program provides the opportunity for study and service to families within three choices of concentration: family services and family life enhancement; family policy and planning; and services to children.

The family services and family life enhancement concentration prepares students to offer direct care and preventative education, and to coordinate family services available within the community. Students develop educational, helping and managerial skills while working with families in need of support or who are experiencing stress.

The family policy and planning concentration helps students to investigate the origins, development, adoption and change process that occurs during policy formulation and family program development. Students are prepared to use knowledge about United States and international family policies in advisory and development roles within organizations serving families.

The services to children concentration focuses on the need for protection and advocacy for children by preparing students with knowledge of child growth and development and skills in community advocacy.

For more information about this program, see the College of Liberal Arts.

GERONTOLOGY

OFFICE

Linthicum Hall 308, 410-830-4644

Director: Donna Wagner

The Gerontology Program at Towson University offers an undergraduate degree program leading either to the Bachelor of Arts or Bachelor of Science degree. The course work is multidisciplinary and provides students with an understanding of the scope of gerontology, the issues which are central to the study of aging, and a perspective from which to understand the phenomenon of human aging and its implications on society. The program is designed to prepare the student for entry-level occupational positions within the field of aging and to provide the knowledge and skills necessary for acceptance by graduate and professional schools for additional gerontological education.

For more information about this program, see the College of Liberal Arts.

HONORS COLLEGE

OFFICE

Cook Library 524, 410-830-4677

Towson University's Honors College is designed for students who have demonstrated superior academic performance in the past, and who wish to pursue unique educational opportunities while attending the university. Students may major in any field at Towson University and be part of the Honors College. At Towson, honors students are encouraged to seek intellectual excellence and leadership through opportunities which go beyond the routine college experience. The Honors College is a true community of scholars.

There are Honors College courses in a wide range of academic disciplines: anthropology, art history, biology, chemistry, mass communication and communication studies, economics, English, history, philosophy, political science, psychology, sociology, and women's studies. Honors College courses, taught by outstanding teachers among a faculty committed to excellence in undergraduate education, are designed to facilitate discussion and collaborative learning. Honors College courses do not require extraordinary amounts of time compared to non-honors courses, but they do require thoughtful participation and often go beyond the boundaries of traditional disciplines.

For a full description of Honors programs, please see the University Curriculum section.

INTERDISCIPLINARY STUDIES

Tracks/Minors

African-American Studies
American Studies
Animal Behavior
Asian Studies
Comparative Ethnic Studies
Jewish Studies
Latin American Studies
Medieval and Renaissance Studies
Prelaw
Religious Studies

Minors

Business, Communication and the Liberal Arts
Classical Studies
Irish Studies
Jewish Studies
Lesbian and Gay Studies

OFFICE

Linthicum Hall 100A, 410-830-3600

Director: Carl Behm

The Interdisciplinary Studies major provides students with the opportunity to pursue a program of study that is currently unobtainable through any single discipline at Towson University. The major offers students two alternatives: (1) formally designed thematic options (tracks and minors) and (2) individually designed thematic options.

The formally designed thematic options have been created by interdisciplinary faculty committees under a thematic option alternative. Under the formally designed programs, students are advised by either the coordinator of the track or by a member of its advisory committee. Currently 9 formally designed thematic options are offered at Towson: African-American Studies, American Studies, Animal Behavior, Asian Studies, Comparative Ethnic Studies, Latin American Studies, Medieval and Renaissance Studies, Prelaw, and Religious Studies. Students interested in any of these formally designed thematic options should contact that option's coordinator.

When none of the traditional majors or these formally designed thematic options meets the student's needs, then the student may pursue the second Interdisciplinary Studies alternative: the individually designed thematic option. These thematic options provide Towson University students with the opportunity to pursue a major that is available at other colleges or universities but that is not available currently at Towson. Examples of such majors include Nature Writing, Recreation Management, and Deaf Studies.

Contact the coordinator of Interdisciplinary Studies for further information and for help in finding a faculty adviser with relevant expertise. All individually designed programs must be approved by a faculty adviser and by the coordinator of Interdisci-

plinary Studies. No unapproved program of study may be used for graduation.

Towson University offers the minor in Business, Communication and the Liberal Arts; Classical Studies; Irish Studies; Jewish Studies; and Lesbian and Gay Studies. These programs are listed under Interdisciplinary Studies because they are interdisciplinary in content and structure. Students in any major may elect to pursue these minors.

For a complete description of these programs, see the College of Liberal Arts.

INTERNATIONAL STUDIES

OFFICE

Linthicum Hall 118H, 410-830-3510

Director: Jim Roberts

The International Studies Program is designed to appeal to a diversity of students who plan to go on to a variety of careers and graduate study ranging from government and the foreign service to international business and trade, international education, and international social service. The program aims to achieve a global perspective through an interdisciplinary network of courses and experiences which will lead to a Bachelor of Arts degree in International Studies. The program is administered by a committee composed of representatives from the following disciplines: economics, geography and environmental planning, history, management, modern languages, political science, and sociology/anthropology.

For more information about this program, see the College of Liberal Arts.

LAW AND AMERICAN CIVILIZATION

OFFICE

Linthicum Hall 118B, 410-830-3350

Director: Jack Fruchtman

The Law and American Civilization Program introduces students to the study of the law within the context of American history, culture and society. As an interdisciplinary major, it covers four disciplines and includes course work in three others. Towson University students will study with experts in a variety of fields in the law as well as with faculty whose interests are deeply and broadly rooted in the liberal arts.

Each faculty member who teaches in the program gives great attention to students' individual interests and needs.

- Academic and career advising are such essential elements in the program that all students have individual faculty members to turn to for guidance.
- Students have a wide array of choices to make for their course selections.
- Students may engage in internships and practicums in a variety of legal environments, if they choose to do so.
- The faculty focuses particular attention on students' communication skills in writing and speaking.
- The faculty emphasizes critical and analytical thinking skills in the course work of each department participating in the program.
- The faculty is intent on enriching the lives of its students to help them achieve a successful undergraduate career.
- Academic and career planning are essential elements in the program as a cooperative effort between students and faculty.

For more information about this program, see the College of Liberal Arts.

SOCIAL SCIENCES

OFFICE

Linthicum Hall 100A, 410-830-3600

Director: Carl Behm

The Social Sciences Program is an interdepartmental major offering courses from the departments of Economics; Geography; History; Political Science; and Sociology, Anthropology and Criminal Justice.

The program is designed for those students who do not wish to major in a single discipline, but are interested in a broad education, transcending traditional department boundaries. It is useful for those students who plan to enter graduate school for an advanced degree in one of the disciplines of the program; for those students who plan to enter professional schools for a degree in law, social service, or a phase of law enforcement, as well as those students who seek a broad background in preparation for employment in business, industry, or a government agency. It is particularly designed for students planning to teach social studies at the secondary school level.

A coordinator administers the program, and faculty from the departments of Economics; Geography; History; Political Science; and Sociology, Anthropology and Criminal Justice advise students majoring in the program. Policies and requirements for the majors in Social Science are established by an advisory committee composed of representatives from the various disciplines included in the program.

The major offers the student the choice of two Social Science programs: a Social Science major in Secondary Education or a Social Science major in Liberal Arts. The Bachelor of Arts degree may be earned in either Social Science program by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate courses of a modern foreign language or its equivalent.

For more information, see the College of Liberal Arts.

SPORT MANAGEMENT

OFFICE

Towson Center 319, 410-830-2384

Director: Vince Angotti

The program in Sport Management is designed to address sport's unique position in American business and to prepare students for careers in athletic and recreation administration, the fitness industry, college and professional sports, and retail marketing.

For more information about this program, see the College of Health Professions.

SPORT STUDIES

OFFICE

Towson Center 327, 410-830-2772

Director: David Zang

The Sport Studies Program focuses on the current knowledge base and interpretations of human interaction in sport. The program provides a range of interdisciplinary study options leading to preparation for graduate study or employment in sports related positions. The program includes concentrations in Psychology of Sport and Sport Communication.

The program in Psychology of Sport is designed to address aspects of psychological study related to athletic performance, exercise and physical activity. Students selecting this major must also declare a minor in Psychology. The program in Sport Communication is designed to prepare students for careers in sports information, public relations, and the broadcast and print media.

For more information about this program, see the College of Health Professions.

WOMEN'S STUDIES

OFFICE

Linthicum Hall 201F, 410-830-2660

Director: Jo-Ann Pilardi

The Women's Studies major is an interdisciplinary program which offers students the opportunity to study the status and roles of women as individuals and as members of society. Courses emphasize both commonalities among women and differences according to race, ethnicity, class and sexual preference. The 39-credit major consists of 6 hours of required core curriculum plus 33 hours selected from approved electives. Each program is individually tailored to the needs and interests of the student. Elective courses are offered in Women's Studies (WMST), Anthropology, Art, Biology, Chemistry, Economics, Electronic Media and Film, English, Geography, Health Science, History, Interdisciplinary Studies, Kinesiology, Music, Philosophy, Political Science, Psychology and Sociology.

For more information about this program, see the College of Liberal Arts.







The College of Graduate Education and Research

The team of administrators and staff of the College of Graduate Education and Research is committed to providing outstanding service and premier quality education to all the students it serves.

The Graduate School prepares qualified and dedicated students for career advancement, leadership positions and further graduate study. Its graduate programs satisfy professional and personal needs of students and fulfill the demand for advanced education in the professions. Programs are offered at times convenient to employed students, and many students also take advantage of graduate offerings without enrolling in degree programs. One applied doctorate, 27 master's degree programs and several certificates are available in the fields of education, arts and sciences, and fine arts.

The graduate faculty include recognized scholars and practitioners in many fields who are committed to excellence in teaching in a scholarly environment. The classroom, library, clinical and faculty assets of the graduate programs are supplemented by a community rich in cultural, artistic, social, technological and scientific resources.

Jin Kang Gong, Dean
Christopher Blake, Acting Associate Dean

GRADUATE SCHOOL OFFICE
Enrollment Services Center
410-830-2501
www.towson.edu/grad

Applied Information Technology
Art Education
Art, Studio
Audiology (Au.D.)
Biology
Clinician to Administrator Transition Certificate
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Education
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Professional Writing
Psychology
 Clinical
 Counseling
 Experimental
 School
Software Engineering Certificate
Speech-Language Pathology and Audiology
Strategic Public Relations and Integrated Communications Certificate
Theatre
Women's Studies

GRADUATE SCHOOL**Programs**

Applied Doctorate
Audiology

Master of Arts
Geography and Environmental Planning
Liberal and Professional Studies
Mass Communications
Psychology

Master of Education
Early Childhood Education
Elementary Education
Reading
Secondary Education

Master of Fine Arts
Studio Art
Theatre

Master of Science
Art Education
Applied and Industrial Mathematics
Applied Information Technology
Biology
Communications Management
Computer Science
Health Science
Human Resource Development
Information Technology Management
Instructional Technology
Mathematics Education
Music Education
Occupational Therapy
Professional Writing
Speech-Language Pathology and Audiology
Women's Studies

Master of Music
Performance/Composition

Certificate of Advanced Study in School Psychology

Certificate of Advanced Study in Counseling Psychology

Post-Baccalaureate Certificates
Clinician to Administrator Transition
Information Security and Assurance
Internet Application Development
Management and Leadership Development
Networking Technologies
Software Engineering
Music
Strategic Public Relations and Integrated Communications

University-Approved Certificates
Interdisciplinary Theatre
Litigation Consulting

ADMISSION

Admission to the Graduate School at Towson University is granted to applicants whose academic and personal qualifications give promise of success in graduate study. The applicant must hold a baccalaureate degree from a regionally accredited college or university and satisfy minimum grade point average requirements.

Students seeking admission to a graduate degree program, or to take courses carrying graduate credit, must apply prior to first enrollment. Applicants must file an application together with all credentials and official transcripts of all college work. Some programs have selection cut-off dates and admit students on a competitive, space-available basis.

Graduate School Office Hours

The Graduate School office is open Monday through Thursday from 8 a.m. to 7 p.m. and Fridays from 8 a.m. to 5 p.m. During registration, the office is open in the evening according to the registration schedule. Students may arrange for appointments with the Graduate School staff at other hours.

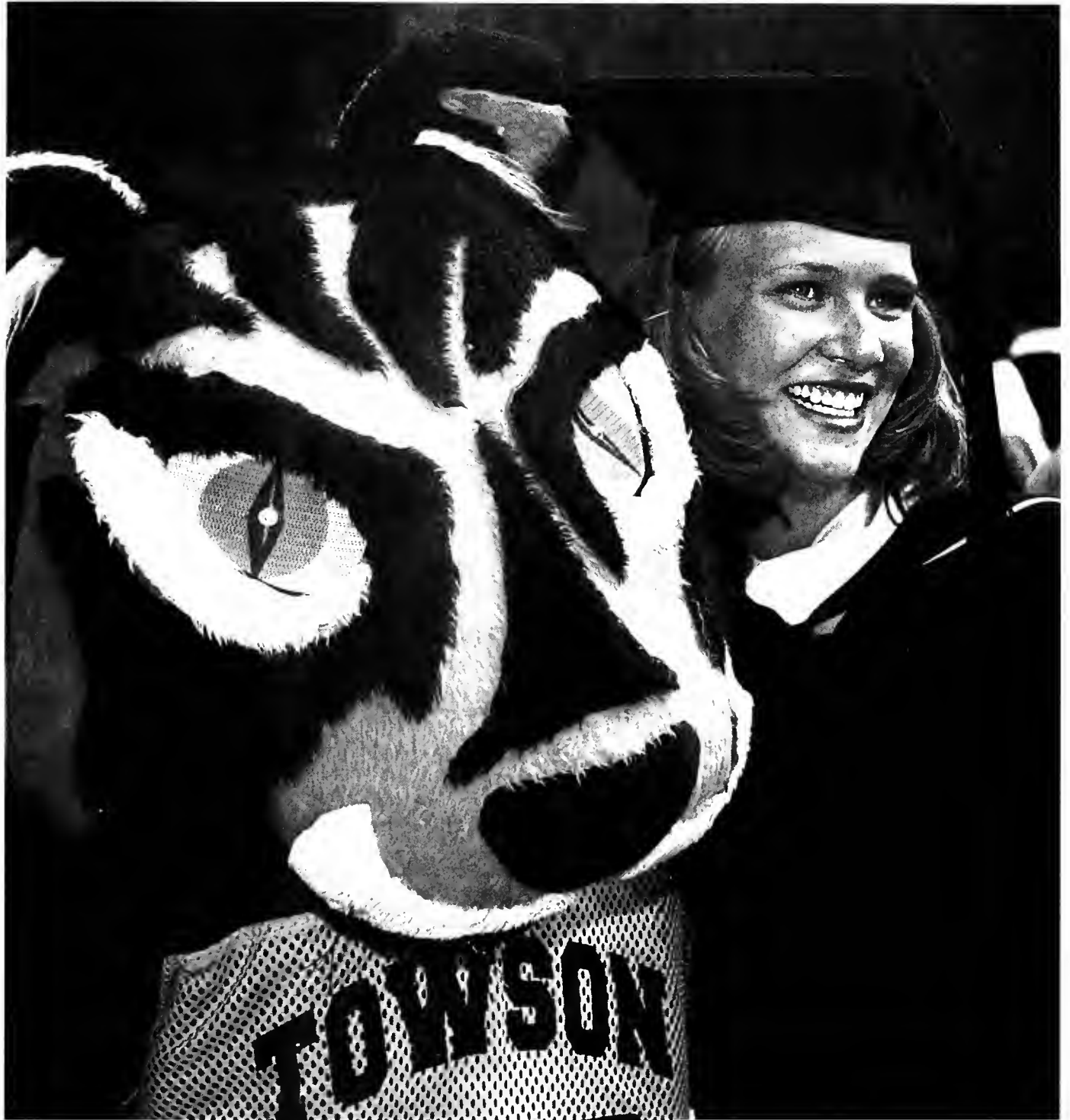
The Graduate Catalog

The *Graduate Catalog* contains the academic regulations governing graduate studies at Towson University. It also includes information regarding individual master's degree programs, course offerings and the application process. A copy may be obtained by calling or writing to the Graduate School office. A *Schedule of Courses* booklet, listing dates and times of courses for the coming semester and containing registration material is available on campus or from the Graduate School office immediately prior to registration.

Correspondence and Information

All correspondence and requests for information concerning graduate study should be addressed to:

Graduate School
Towson University
8000 York Road
Towson, MD 21252-0001







The College of Extended Programs

The College of Extended Programs is committed to enriching lives by connecting the programs, services, and intellectual resources of Towson University to constituencies on campus, in the Greater Baltimore region, and beyond. Our vision is to be recognized as the regional leader in providing innovative educational opportunities that foster individual, organizational and community growth.

The college includes four units: Older Adult Programs, The Career Center, Computer Technology Training Center, and Extended Learning Enterprises. Older Adult Programs include Elderhostel, The Auburn Society, and Senior Cyber Net. Extended Learning Enterprises administers Towson University's offerings at off-campus centers, distance learning courses, Corporate University programs, and the Summer and Minimester sessions.

Mark Greenberg, Acting Dean

COLLEGE OFFICE
Executive Administrative Assistant: Janet Gaver

7800 York Road, Suite 233
(This office is moving during the academic year. Please call before visiting.)
410-830-2631

Fax: 410-830-2032
E-mail: mgreenberg@towson.edu
www.towson.edu/cep

SUMMER SESSION

The summer session includes day and overlapping evening terms. Workshops, intensive courses and teacher certification courses are special features of the summer session. Graduate courses and a large variety of undergraduate courses necessary to complete the General Education requirements and undergraduate majors are offered as well.

MINIMESTER

The January session, or Minimester, is designed to offer both the student and the professor an opportunity to explore a non-traditional educational experience. Subject matter is usually organized around a highly specific theme. Both the thematic approach and the concentrated time span encourage a depth of study not possible during the regular semester.

Regular graduate and undergraduate courses are offered, as well as independent study, directed readings, practica, travel study, seminars and field study. Most Minimester courses are offered during the day.

The student is restricted to no more than four credits per Minimester. Credits for the Minimester are equivalent to credits earned during the regular semester.

Graduate students, as well as undergraduate non-degree students and part-time degree candidates, are eligible to register for the Minimester.

Fees will be assessed on a per-credit basis payable at the time the student registers for the course.

Registration for most courses takes place in December. The exact times are listed in the publications of the university.

CAMPUS CENTERS

Harford County Higher Education and Applied Technology (H.E.A.T.) Center: Graduate programs in Education, Instructional Technology, and Computer Science are offered at this Harford County location. **Southern Maryland Higher Education Center (S.M.H.E.C.):** At this center, located in St. Mary's County, Towson provides courses leading to graduate degrees in Education and Human Resource Development. Towson also offers courses at Maryland community college campuses through partnerships with community colleges.

For the latest information on courses and seminars offered by Towson University at these centers, please call 410-830-3534.

TELEVISION COURSES

In association with the Maryland Center for Public Broadcasting, courses are offered through the Maryland College of the Air. Students may register for television courses through telephone registration or in-person registration. Consult the *Schedule of Courses*.

COMPUTER TECHNOLOGY TRAINING CENTER

The Computer Technology Training Center offers nationally recognized certification courses such as A+ and MCSE. Classes are held in two state-of-the-art-training laboratories at The Berkshire Guest Suites and Conference Center. CTTC also offers customized training programs for business and governmental organizations.

CORPORATE UNIVERSITY

Towson meets the diverse, ongoing educational needs of businesses. Towson University customizes courses that provide education in core business areas of corporations, as well as meeting employees' needs for undergraduate or graduate education for personal advancement. Courses are offered both on the campus and at work sites.

PROGRAMS FOR OLDER ADULTS

Towson University offers a variety of programs that serve the educational needs of older adults in the community.

The Elderhostel Program, inspired by the youth hostels and folk schools of Europe, is a network of more than 1,800 colleges and universities that offers special low-cost, short-term residential academic programs for adults over the age of 60. Participants in summer programs are housed in dormitories, take meals in dining halls, and take part in a variety of activities on and off the campus. TU Elderhostel also offers additional weeks of programs throughout the year at a commercial facility a short drive from the campus, as well as sites in Annapolis.

The Auburn Society at Towson University is a nonprofit organization affiliated with Towson University and the Elderhostel Institute Network. A member-run volunteer organization, it provides a unique opportunity for older adults to continue learning at the university level. Members plan, administer and often teach courses, as well as running the organization through committees and an elected board.

Senior Cyber Net is a Towson-sponsored project in which older adults, trained in basic computer skills, teach other older adults to use such computer functions as electronic mail. Based in Hunt Valley, the program is specifically geared to relieve the isolation of homebound seniors.

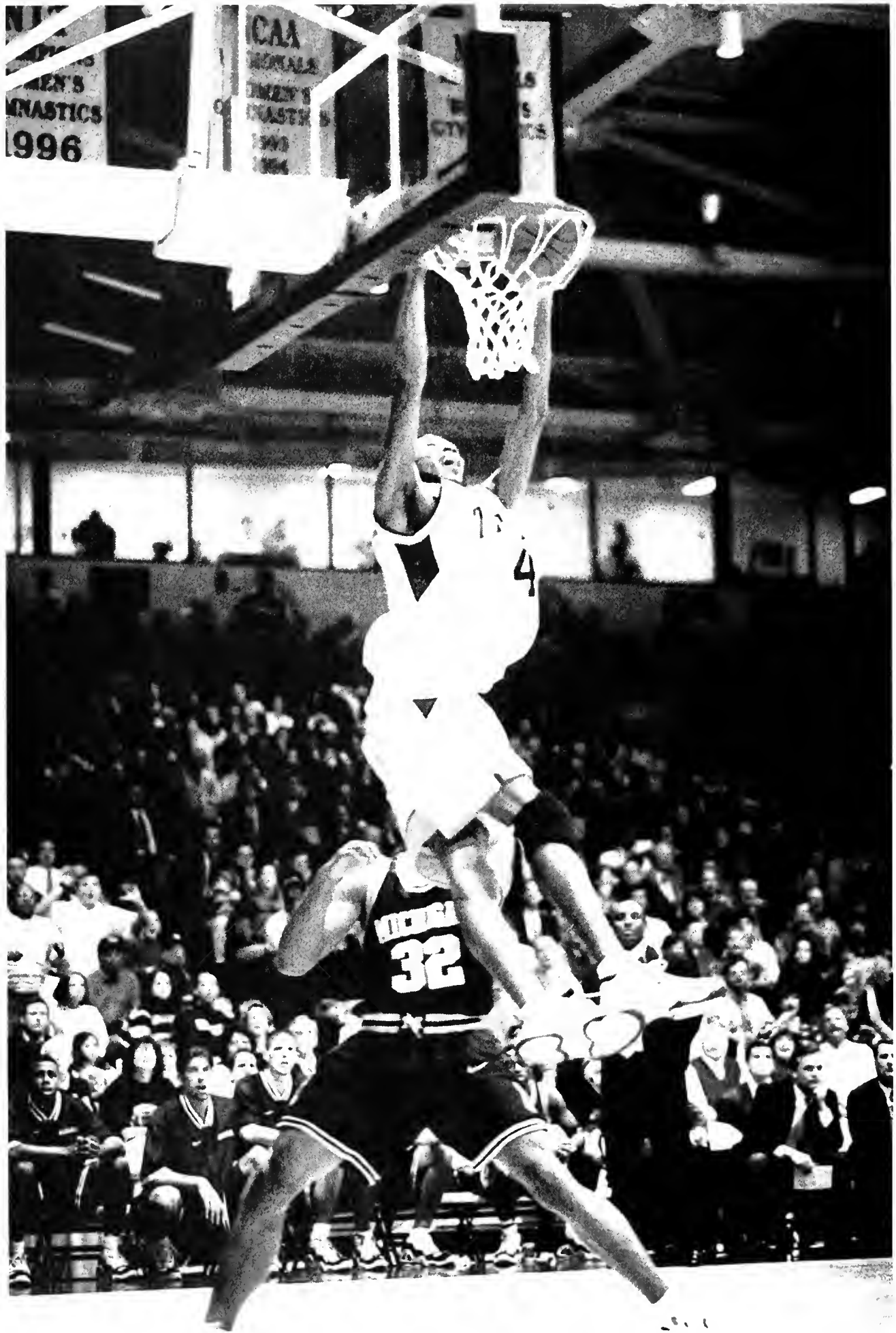
THE CAREER CENTER

7800 York Road, Suite 370, 410-830-2233

(This office is moving during the academic year. Please call before visiting.)

Information about The Career Center can be found in the University Life section of this catalog.





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Megan A. Rock
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Lori Armstrong
Director of Alumni Relations
Towson University

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Laura Scileppi
Towson University

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BEVERLY C. LEETCH
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The College of Liberal Arts

GERALD INTEMANN
The College of Science and Mathematics

JIN KANG GONG
Dean, College of Graduate Education and Associate Vice President for Research

MARK GREENBERG
Acting Dean
The College of Extended Programs

Instructional Faculty

The date in brackets is the date of first appointment in the university.

DANIEL AGLEY, *Assistant Professor, Health Science*
[1971] B.S., M.S., Indiana University; Ed.D., University of Maryland.

KIUMI AKINGBEHIN, *Professor, Computer and Information Sciences*
[1994] B.S., Howard University; M.S., University of Tennessee; M.A., Ph.D., Wayne State University.

PHILIP S. ALBERT, *Assistant Professor, Kinesiology*
[1968] B.S., University of Arizona.

JOHN R. ALEXANDER, JR., *Professor, Computer and Information Sciences*
[1976] B.S., Columbia University; M.S., Johns Hopkins University; Ph.D., University of Maryland Graduate School, Baltimore.

GLEN SCOTT ALLEN, *Associate Professor, English*
[1992] B.S., University of Utah; M.A., Boston University; Ph.D., University of Utah.

PATRICIA ALT, *Professor, Health Science*
[1987] A.B., Duke University; M.A., Ph.D., University of North Carolina.

BESS ALTWERGER, *Professor, Elementary Education*
[1989] B.A., State University of New York, Stony Brook; M.A., Jersey City State College; Ed.D., University of Arizona.

MOSTAFA S. AMINZADEH, *Professor, Mathematics*
[1988] B.S., Pahlavi University (Iran); M.S., California State University; Ph.D., Oregon State University

LENA AMPADU, *Assistant Professor, English*
[1976] M.A., American University; Ph.D., University of Maryland, College Park.

DAVID ANDERSON, *Assistant Professor, Physics, Astronomy and Geosciences*
[2000] B.S., G.D.E., Ph.D., Queensland University of Technology.

JANET KAY ANDERSON, *Associate Professor, Psychology*
[1977] B.A., University of Portland; M.A., New York University at Madrid (Spain); M.S., Kansas State University; Ph.D., University of Maryland.

VIRGINIA JOHNSON ANDERSON, *Professor, Biological Sciences*
[1968] B.S., Lamar State College of Technology; M.Ed., University of Georgia; Ed.D., University of Maryland.

VINCENT A. ANGOTTI, *Assistant Professor, Kinesiology*
[1965] B.S., Lock Haven State College; M.S., West Virginia University.

JAMES M. ANTHONY, *Associate Professor, Music*
[1971] B.M., B.A., University of Arkansas; M.A., University of Michigan; Ph.D., University of Michigan.

POONAM AYRA, *Assistant Professor, Reading, Special Education and Instructional Technology*
[1998] B.S., M.Ed., Delhi University; Ph.D., State University of New York, Buffalo.

ALBERT E. AVERY, *Associate Professor, Finance*
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Appendix A

MISSION STATEMENT

Towson University Mission Statement

I. Institutional Identity

Towson University, founded in 1866, is Maryland's largest comprehensive university and is part of the University System of Maryland. It is a key element in the educational, economic and cultural life of Baltimore and the state of Maryland, and enjoys a strong regional and national reputation for quality undergraduate education in the liberal arts and sciences, fine and performing arts, and in professional programs in business, education and the health professions. The university is undergoing significant change by expanding its programmatic offerings at the undergraduate level in interdisciplinary fields and postbaccalaureate certificates and master's and applied doctoral programs that respond to changes in the disciplines and to work-force needs. It has also been identified as one institution of the University System of Maryland institutions capable of accepting new students and expanding its overall size.

Excellence at Towson University begins with its commitment to a liberal arts and sciences education for all undergraduate students that is based on an understanding of the fine arts, humanities, science, mathematics, and social and behavioral sciences and how each of them investigates and reaches conclusions. The university helps all students develop a range of intellectual skills that will enrich and shape their lives and enable them to be contributing members of a democratic society.

Towson University faculty emphasizes excellence in teaching and advising and continuous scholarly productivity in support of teaching. The university also encourages original research that advances knowledge, improves and evaluates teaching, and applied research serving the professional fields and the community. University faculty also engages in creative activity in the arts and in clinical practice and service in fields such as business, the health professions and teaching.

The university aspires to be a complex comprehensive university with a broad array of programs that meet student needs and work-force requirements. In the future, it expects to expand its undergraduate offerings in interdisciplinary fields that build on existing strengths and in graduate areas to the doctoral level that expand its commitment to professional fields in the arts and sciences, information technology, education, the health professions and business. Peer institutions include the University of North Carolina at Charlotte, East Carolina University, and California State University, Sacramento.

Current Carnegie Classification: Comprehensive Colleges and Universities I

II. Constituencies Served

Towson serves commuting and residential, full- and part-time students primarily from the greater Baltimore area, but also from throughout the state of Maryland, and from Northeastern states such as New Jersey, New York and Pennsylvania. These areas rely on Towson University for high quality undergraduate and graduate degree programs, and extended education. The university will continue to expand and deepen its partnership with the Baltimore metropolitan community by responding to educational and work-force needs.

Towson University is committed to creating a multicultural and diverse campus reflecting the local and global community. The university has expanded its offerings to serve a diverse student population. Through its international education program, the university also serves students from many nations such as China, Germany, Taiwan, Brazil, Switzerland and England.

Towson's undergraduate programs are designed to serve students who demonstrate a capacity for higher education in the range of the top third of Maryland's high school graduates or by qualifying as a community college transfer student. In addition to its large population of traditional-age students, the university facilitates the enrollment and education of nontraditional, adult students attending full- and part-time in undergraduate and graduate degree and certificate programs and training seminars.

The campus is also fully accessible to and offers support services for faculty, staff and students with disabilities.

III. Academic Program Emphasis

Towson University offers a comprehensive range of baccalaureate programs in the liberal and fine arts, sciences, and professional programs in business, education, computer and information sciences, and the health professions. The university is committed to strengthening its core liberal and fine arts and sciences disciplines and to building a nationally prominent general education program for all undergraduate students.

The university places an emphasis on and will continue to develop programs in areas responsive to the metropolitan community, building on existing strengths of the faculty in interdisciplinary fields combining both liberal arts and sciences and a professional orientation, such as environmental science and studies, metropolitan studies and gerontology. The university will also continue its emphasis on international, multicultural, ethnic and women's studies curricula.

Postbaccalaureate certificates and master's programs, developed in response to community needs, focus on education, fine arts, the health professions, computer science and information systems, software design and applied professional fields. Areas of emphasis include education, theater, human resource development, psychology, computer and information sciences, speech-language pathology, audiology, occupational therapy and health administration. In 1999, the graduate student population was nearly 18 percent of the university's enrollment of full-time equivalent students, which represents the largest graduate enrollment to date. In the years ahead, the university expects to expand the graduate population to 25 percent of the total enrollment. Education remains a major focus of the university and its involvement with the K-16 initiative necessitates that it expands its capacity at both the undergraduate and graduate levels to provide disciplinary master's degrees for teachers in secondary schools.

Doctoral programs will be developed and offered to respond to student demands and professional needs building on the strengths of the university in audiology, occupational therapy and education. The introduction of applied doctoral programs such as an Ed.D. in Education, a Doctor of Audiology (AuD), and a Doctor of Science (ScD.) in Occupational Science are in immediate demand.

Baccalaureate and graduate programs are designed to foster student learning that integrates knowledge, both theoretical and applied, with effective application and professional practice. The university offers carefully designed distributive education programs, giving students access to Web technologies that combine with the personal interaction with on-site faculty. The university intends to expand its programming with community college partners and with higher education centers throughout the state.

IV. Research, Scholarship, Service/Community Outreach

Towson encourages its faculty to engage actively in scholarly and creative activities that complement their disciplinary knowledge and teaching as well as to contribute public service in the community. The university is fully supportive of an expanding definition of scholarship and provides strong support to traditional research in the core disciplines, research related to teaching, and applied research that responds to societal needs or contracts for services related to economic and social needs.

It supports institutional outreach programs to government, health care organizations, nonprofit groups, education, business and the fine arts in its region. Centers such as the Regional Economic Studies Institute, Geographic Information Sciences, and Applied Information Technology continue to link faculty scholarship with community needs and interests. The Maryland Arts Festival, the Children's Dance Theater, plus numerous faculty and student recitals throughout the year contribute to the cultural life of the community. The Wellness Center and the Speech-Language-Hearing Clinic provide clinical sites for faculty and students and serve the well being of the region. The university's strong history in teacher education enables it to expand its partnership with the surrounding counties and Baltimore City school systems as well as with private schools. Towson University is a primary educator of teachers in the state.

As such, the university meets the demands for extended and advanced education through its highly regarded Professional Development School Network linking the university's pre-service and in-service teachers in a clinical setting. Moreover, the Center for Science and Mathematics Education joins undergraduate and graduate students and teachers in an effort to strengthen the K-12 science and mathematics curriculum.

V. Collaborative Efforts within the Higher Education Community

Towson University participates in several cooperative programs including a dual law degree with the University of Baltimore, a dual engineering program with University of Maryland, College Park, and the Certificate of Advanced Study in School Psychology with the University of Maryland Baltimore County. Outside the USM, Towson is a partner in a cooperative reading program with Morgan State University. Towson University is also an active participant in the USM Downtown Baltimore Center, the Southern Maryland Higher Education Center and the Higher Education and Applied Technology Center in Harford County. The university is also a charter member of MAITI and seeks to provide education and applied research in the information technology and computer science fields.

The College of Extended Programs will expand the community college initiatives to improve access to baccalaureate programs to Maryland residents who are limited geographically or economically. The hope is to link with community colleges in 2+2 programs throughout the state with increasing portions of the bachelor's degree at the community college. This college is also responsible for program offerings in corporate and business settings.

VI. Short-Term Goals and Priorities

The university is developing a program portfolio that reflects peer comprehensive institutions and is responsive to the broad directions of undergraduate liberal arts and sciences and professional programming. At the graduate level, we are developing traditional master's degrees that respond to the needs of our students entering the teaching profession and programs, which respond to work-force needs in the Baltimore region. Major priorities for the next five years include continued enhancement of programmatic areas in education, fine and performing arts, information technology and information systems, health professions, interdisciplinary studies and programs such as environmental science that have a professional focus; and expansion of postbaccalaureate Certificates of Study. The university expects to pursue an applied doctoral program in applied information technology. It anticipates the development of graduate programs that combine expertise in business with content areas such as health, the arts, applied economics and mass communications. These programs flow from undergraduate strength both in the content areas and the university's position as the largest undergraduate business program in the Baltimore region. Programs such as an M.S. in Health Care Management or M.S. in Applied Economics build on those strengths.

The university also seeks to enhance the technological infrastructure for the delivery of programs, including the university library as a center for information resources and for new technologies related to teaching and research. A renewed effort on student-centered programs and services will be an area of focus. This includes the expansion and further strengthening of the Honors Program as a priority to attract students to the university in each academic college. An emphasis on student advising at all levels, enhanced through the use of appropriate technological applications, remains a priority. The university strives to provide an environment that nurtures the development of the whole person, both intellectually and socially. It will create a healthy living and learning community that prepares students to live in an increasingly multicultural society.

Mission Statement

Towson University is an institution focused on teaching committed to providing comprehensive opportunities for undergraduate and graduate education. It offers strong programs in the traditional liberal and fine arts, the sciences, and interdisciplinary areas that reflect new directions in scholarship, and in issue-oriented fields such as environmental science, gerontology, and health management. The university also imbeds liberal and fine arts and sciences in strong professional programs in business, education, the health professions, communications, and computer and information systems.

The undergraduate curriculum also gives students the intellectual skills essential to effective communication in speaking and writing, the gathering and evaluation of information, critical analysis, competence in the use of technology, and an appreciation of diverse points of view.

The university offers postbaccalaureate education from certificate programs for advanced education and work-force training, to master's degrees in traditional disciplines and applied fields, and doctoral programs in areas of greatest strength and societal needs. The university is committed to enhancing its programs for the education of teachers and will expand its Professional Development Schools, undergraduate and graduate degrees.

Through its faculty known for excellent teaching, basic and applied scholarship, and creative activities, the university responds to the issues and needs of Baltimore and the broader regional, political and economic community.

*Approved by the Board of Regents
21 September 1999*

Approved by Maryland Higher Education Commission

UNIVERSITY GOALS

I. By far the highest priority of the university shall be to provide a sound liberal arts and sciences education for all students regardless of their major or occupational ambitions.

II. The campus environment shall provide ideal conditions for learning — learning between student and teacher, student and student, teacher and teacher, and between these and the staff, alumni, and citizens concerned with intellectual and professional pursuits.

III. The university shall support programs leading to the development of skills and knowledge.

IV. Excellence in student, faculty, and administrative performance shall be encouraged by relevant, constructive evaluation and recognition.

V. The university shall provide equal educational opportunity for the population it serves.

VI. The university shall maintain its autonomy from unreasonable influence by outside governing bodies and special interest groups.

Appendix B

TITLE 13B

MARYLAND HIGHER EDUCATION COMMISSION

Subtitle 06 GENERAL EDUCATION AND TRANSFER

Chapter 01 Public Institutions of Higher Education

Authority: Education Article, (11-201 - 11-206, Annotated Code of Maryland)

.01 Scope and Applicability.

This chapter applies only to public institutions of higher education.

.02 Definitions.

A. In this chapter, the following terms have the meanings indicated.

B. Terms Defined.

(1) "A.A. degree" means the Associate of Arts degree.

(2) "A.A.S. degree" means the Associate of Applied Sciences degree.

(3) "Arts" means courses that examine aesthetics and the development of the aesthetic form and explore the relationship between theory and practice. Courses in this area may include fine arts, performing and studio arts, appreciation of the arts, and history of the arts.

(4) "A.S. degree" means the Associate of Sciences degree.

(5) "Biological and physical sciences" means courses that examine living systems and the physical universe. They introduce students to the variety of methods used to collect, interpret, and apply scientific data, and to an understanding of the relationship between scientific theory and application.

(6) "English composition courses" means courses that provide students with communication knowledge and skills appropriate to various writing situations, including intellectual inquiry and academic research.

(7) "General education" means the foundation of the higher education curriculum providing a coherent intellectual experience for all students.

(8) "General education program" means a program that is designed to:

(a) Introduce undergraduates to the fundamental knowledge, skills, and values that are essential to the study of academic disciplines;

(b) Encourage the pursuit of life-long learning; and

(c) Foster the development of educated members of the community and the world.

(9) "Humanities" means courses that examine the values and cultural heritage that establish the framework for inquiry into the meaning of life. Courses in the humanities may include the language, history, literature, and philosophy of Western and other cultures.

(10) "Mathematics" means courses that provide students with numerical, analytical, statistical, and problem-solving skills.

(11) "Native student" means a student whose initial college enrollment was at a given institution of higher education and who has not transferred to another institution of higher education since that initial enrollment.

(12) "Parallel program" means the program of study or courses at one institution of higher education which has comparable objectives as those at another higher education institution, for example, a transfer program in psychology in a community college is definable as a parallel program to a baccalaureate psychology program at a 4-year institution of higher education.

(13) "Receiving institution" means the institution of higher education at which a transfer student currently desires to enroll.

(14) "Recommended transfer program" means a planned program of courses, both general education and courses in the major, taken at a community college, which is applicable to a baccalaureate program at a receiving institution, and ordinarily the first two years of the baccalaureate degree.

(15) "Sending institution" means the institution of higher education of most recent previous enrollment by a transfer student at which transferable academic credit was earned.

(16) "Social and behavioral sciences" means courses that examine the psychology of individuals and the ways in which individuals, groups, or segments of society behave, function and influence one another. The courses include, but are not limited to, subjects which focus on:

- (a) History and cultural diversity;
- (b) Concepts of groups, work, and political systems;
- (c) Applications of qualitative and quantitative data to social issues; and
- (d) Interdependence of individuals, society, and the physical environment.

(17) "Transfer student" means a student entering an institution for the first time having successfully completed a minimum of 12 semester hours at another institution which is applicable for credit at the institution the student is entering.

.02-I Admission of Transfer Students to Public Institutions.

A. Admission to Institutions.

(1) A student attending a public institution who has completed an A.A., A.A.S., or A.S. degree or who has completed 56 or more semester hours of credit, shall not be denied direct transfer to another public institution if the student attained a cumulative grade point average of at least 2.0 on a 4.0 scale or its equivalent in parallel courses, except as provided in subsection A(4) below.

(2) A student attending a public institution who has not completed an A.A., A.A.S., or A.S. degree or who has completed fewer than 56 semester hours of credit, shall be eligible to transfer to a public institution regardless of the number of credit hours earned if the student:

- (a) Satisfied the admission criteria of that receiving public institution as a high school senior; and
- (b) Attained at least a cumulative grade point average of 2.0 on a 4.0 scale or its equivalent in parallel courses.

(3) A student attending a public institution who did not satisfy the admission criteria of a receiving public institution as a high school senior, but who has earned sufficient credits at a public institution to be classified by the receiving public institution as a sophomore, shall meet the stated admission criteria developed and published by the receiving public institution for transfer.

(4) If the number of students seeking admission exceeds the number that can be accommodated at a receiving public institution, admission decisions shall be:

- (a) Based on criteria developed and published by the receiving public institution; and
- (b) Made to provide fair and equal treatment for native and transfer students.

B. Admission to Programs.

(1) A receiving public institution may require higher performance standards for admission to some programs if the standards and criteria for admission to the program:

- (a) Are developed and published by the receiving public institution; and
- (b) Maintain fair and equal treatment for native and transfer students.

(2) If the number of students seeking admission exceeds the number that can be accommodated in a particular professional or specialized program, admission decisions shall be:

- (a) Based on criteria developed and published by the receiving public institution; and

(b) Made to provide fair and equal treatment for native and transfer students.

(3) Courses taken at a public institution as part of a recommended transfer program leading toward a baccalaureate degree shall be applicable to related programs at a receiving public institution granting the baccalaureate degree.

C. Receiving Institution Program Responsibility.

(1) The faculty of a receiving public institution shall be responsible for development and determination of the program requirements in major fields of study for a baccalaureate degree, including courses in the major field of study taken in the lower division.

(2) A receiving public institution may set program requirements in major fields of study which simultaneously fulfill general education requirements.

(3) A receiving public institution, in developing lower division course work, shall exchange information with other public institutions to facilitate the transfer of credits into its programs.

.03 General Education Requirements for Public Institutions.

A. While public institutions have the autonomy to design their general education program to meet their unique needs and mission, that program shall conform to the definitions and common standards in this chapter. A public institution shall satisfy the general education requirement by:

(1) Requiring each program leading to the A.A. or A.S. degree to include not less than 30 and not more than 36 semester hours, and each baccalaureate degree program to include not less than 40 and not more than 46 semester hours of required core courses, with the core requiring, at a minimum, course work in each of the following five areas:

- (a) Arts and humanities,
- (b) Social and behavioral sciences,
- (c) Biological and physical sciences,
- (d) Mathematics, and
- (e) English composition; or

(2) Conforming with COMAR 13B.02.02.16D(2)(b)-(c).

B. Each core course used to satisfy the distribution requirements of A(1) of this regulation shall carry at least 3 semester hours.

C. General education programs of public institutions shall require at least:

- (1) One course in each of two disciplines in arts and humanities;
- (2) One course in each of two disciplines in social and behavioral sciences;
- (3) Two science courses, at least one of which shall be a laboratory course;
- (4) One course in mathematics at or above the level of college algebra; and
- (5) One course in English composition.

D. Interdisciplinary and Emerging Issues.

(1) In addition to the five required areas in A of this regulation, a public institution may include up to 8 semester hours in a sixth category that addresses emerging issues that institutions have identified as essential to a full program of general education for their students. These courses may:

- (a) Be integrated into other general education courses or may be presented as separate courses; and
- (b) Include courses that:
 - (i) Provide an interdisciplinary examination of issues across the five areas, or
 - (ii) Address other categories of knowledge, skills, and values that lie outside of the five areas.

(2) Public institutions may not include the courses in this section in a general education program unless they provide academic content and rigor equivalent to the areas in A(1) of this regulation.

E. General education programs leading to the A.A.S. degree shall include at least 20 semester hours from the same course list designated by the sending institution for the A.A. and A.S. degrees. The A.A.S. degree shall include at least one 3-semester-hour course from each of the five areas listed in A (1) of this regulation.

F. A course in a discipline listed in more than one of the areas of general education may be applied only to one area of general education.

G. A public institution may allow a speech communication or foreign language course to be part of the arts and humanities category.

H. Composition and literature courses may be placed in the arts and humanities area if literature is included as part of the content of the course.

I. Public institutions may not include physical education skills courses as part of the general education requirements.

J. General education courses shall reflect current scholarship in the discipline and provide reference to theoretical frameworks and methods of inquiry appropriate to academic disciplines.

K. Courses that are theoretical may include applications, but all applications courses shall include theoretical components if they are to be included as meeting general education requirements.

L. Public institutions may incorporate knowledge and skills involving the use of quantitative data, effective writing, information retrieval, and information literacy when possible in the general education program.

M. Notwithstanding A(1) of this regulation, a public 4-year institution may require 48 semester hours of required core courses if courses upon which the institution's curriculum is based carry 4 semester hours.

N. Public institutions shall develop systems to ensure that courses approved for inclusion on the list of general education courses are designed and assessed to comply with the requirements of this chapter.

.04 Transfer of General Education Credit.

A. A student transferring to one public institution from another public institution shall receive general education credit for work completed at the student's sending institution as provided by this chapter.

B. A completed general education program shall transfer without further review or approval by; the receiving institution and without the need for a course-by-course match.

C. Courses that are defined as general education by one institution shall transfer as general education even if the receiving institution does not have that specific course or has not designated that course as general education.

D. The receiving institution shall give lower-division general education credits to a transferring student who has taken any part of the lower-division general education credits described in Regulation .03 of this chapter at a public institution for any general education courses successfully completed at the sending institution.

E. Except as provided in Regulation .03M of this chapter, a receiving institution may not require a transfer student who has completed the requisite number of general education credits at any public college or university to take, as a condition of graduation, more than 10-16 additional semester hours of general education and specific courses required of all students at the receiving institution, with the total number not to exceed 46 semester hours. This provision does not relieve students of the obligation to complete specific academic program requirements or course prerequisites required by a receiving institution.

F. A sending institution shall designate on or with the student transcript those courses that have met its general education requirements, as well as indicate whether the student has completed the general education program.

G. A.A.S. Degrees.

(1) While there may be variance in the numbers of hours of general education required for A.A., A.S., and A.A.S. degrees at a given institution, the courses identified as meeting general education requirements for all degrees shall come from the same general education course list and exclude technical or career courses.

(2) An A.A.S. student who transfers into a receiving institution with fewer than the total number of general education credits designated by the receiving institution shall complete the difference in credits according to the distribution as designated by the receiving institution. Except as provided in Regulation .03M of this chapter, the total general education credits for baccalaureate degree-granting public receiving institutions may not exceed 46 semester hours.

H. Student Responsibilities. A student is held:

(1) Accountable for the loss of credits that:

(a) Result from changes in the student's selection of the major program of study;

(b) Were earned for remedial course work, or

(c) Exceed the total course credits accepted in transfer as allowed by this chapter; and

(2) Responsible for meeting all requirements of the academic program of the receiving institution.

.05 Transfer of Nongeneral Education Program Credit.

A. Transfer to Another Public Institution.

(1) Credit earned at any public institution in the state is transferable to any other public institution if the:

(a) Credit is from a college or university parallel course or program;

(b) Grades in the block of courses transferred average 2.0 or higher; and

(c) Acceptance of the credit is consistent with the policies of the receiving institution governing native students following the same program.

(2) If a native student's "D" grade in a specific course is acceptable in a program, then a "D" earned by a transfer student in the same course at a sending institution is also acceptable in the program. Conversely, if a native student is required to earn a grade of "C" or better in a required course, the transfer student shall also be required to earn a grade of "C" or better to meet the same requirement.

B. Credit earned in or transferred from a community college is limited to:

(1) 1/2 the baccalaureate degree program requirement, but may not be more than 70 semester hours; and

(2) The first 2 years of the undergraduate education experience.

C. Nontraditional Credit.

(1) The assignment of credit for AP, CLEP, or other nationally recognized standardized examination scores presented by transfer students is determined according to the same standards that apply to native students in the receiving institution, and the assignment shall be consistent with the state minimum requirements.

(2) Transfer of credit from the following areas shall be consistent with COMAR 13B.02.02. and shall be evaluated by the receiving institution on a course-by-course basis:

- (a) Technical courses from career programs;
- (b) Course credit awarded through articulation agreements with other segments or agencies;
- (c) Credit awarded for clinical practice or cooperative education experiences; and
- (d) Credit awarded for life and work experiences.

(3) The basis for the awarding of the credit shall be indicated on the student's transcript by the receiving institution.

(4) The receiving institution shall inform a transfer student of the procedures for validation of course work for which there is no clear equivalency. Examples of validation procedures include ACE recommendations, portfolio assessment, credit through challenge, examinations, and satisfactory completion of the next course in sequence in the academic area.

(5) The receiving baccalaureate degree-granting institution shall use validation procedures when a transferring student successfully completes a course at the lower division level that the receiving institution offers at the upper division level. The validated credits earned for the course shall be substituted for the upper division course.

D. Program Articulation.

(1) Recommended transfer programs shall be developed through consultation between the sending and receiving institutions. A recommended transfer program represents an agreement between the two institutions that allows students aspiring to the baccalaureate degree to plan their programs. These programs constitute freshman/sophomore level course work to be taken at the community college in fulfillment of the receiving institution's lower division course work requirement.

(2) Recommended transfer programs in effect at the time that this regulation takes effect, which conform to this chapter, may be retained.

.06 Academic Success and General Well-Being of Transfer Students.

A. Sending Institutions.

(1) Community colleges shall encourage their students to complete the associate degree or to complete 56 hours in a recommended transfer program which includes both general education courses and courses applicable toward the program at the receiving institution.

(2) Community college students are encouraged to choose as early as possible the institution and program into which they expect to transfer.

(3) The sending institution shall:

- (a) Provide to community college students information about the specific transferability of courses at 4-year colleges;
- (b) Transmit information about transfer students who are capable of honors work or independent study to the receiving institution; and

(c) Promptly supply the receiving institution with all the required documents if the student has met all financial and other obligations of the sending institution for transfer.

B. Receiving Institutions.

(1) Admission requirements and curriculum prerequisites shall be stated explicitly in institutional publications.

(2) A receiving institution shall admit transfer students from newly established public colleges that are functioning with the approval of the Maryland Higher Education Commission on

the same basis as applicants from regionally accredited colleges.

(3) A receiving institution shall evaluate the transcript of a degree-seeking transfer student as expeditiously as possible, and notify the student of the results not later than mid-semester of the student's first semester of enrollment at the receiving institution, if all official transcripts have been received at least 15 working days before mid-semester. The receiving institution shall inform a student of the courses which are acceptable for transfer credit and the courses which are applicable to the student's intended program of study.

(4) A receiving institution shall give a transfer student the option of satisfying institutional graduation requirements that were in effect at the receiving institution at the time the student enrolled as a freshman at the sending institution. In the case of major requirements, a transfer student may satisfy the major requirements in effect at the time when the student was identifiable as pursuing the recommended transfer program at the sending institution. These conditions are applicable to a student who has been continuously enrolled at the sending institution.

0.7 Programmatic Currency.

A. A receiving institution shall provide to the community college current and accurate information on recommended transfer programs and the transferability status of courses. Community college students shall have access to this information.

B. Recommended transfer programs shall be developed with each community college whenever new baccalaureate programs are approved by the degree-granting institution.

C. When considering curricular changes, institutions shall notify each other of the proposed changes that might affect transfer students. An appropriate mechanism shall be created to ensure that both 2-year and 4-year public colleges provide input or comments to the institution proposing the change. Sufficient lead time shall be provided to effect the change with minimum disruption. Transfer students are not required to repeat equivalent course work successfully completed at a community college.

.08 Transfer Mediation Committee.

A. There is a Transfer Mediation Committee, appointed by the Secretary, which is representative of the public 4-year colleges and universities and the community colleges.

B. Sending and receiving institutions that disagree on the transferability of general education courses as defined by this chapter shall submit their disagreements to the Transfer Mediation Committee. The Transfer Mediation Committee shall address general questions regarding existing or past courses only, not individual student cases, and shall also address questions raised by institutions about the acceptability of new general education courses. As appropriate, the Committee shall consult with faculty on curricular issues.

C. The findings of the Transfer Mediation Committee are considered binding on both parties.

.09 Appeal Process.

A. Notice of Denial of Transfer Credit by a Receiving Institution.

(1) Except as provided in A(2) of this regulation, a receiving institution shall inform a transfer student in writing of the denial of transfer credit not later than mid-semester of the transfer student's first semester, if all official transcripts have been received at least 15 working days before mid-semester.

(2) If transcripts are submitted after 15 working days before mid-semester of a student's first semester, the receiving institution shall inform the student of credit denied within 20 working days of receipt of the official transcript.

(3) A receiving institution shall include in the notice of denial of transfer credit:

- (a) A statement of the student's right to appeal; and
- (b) A notification that the appeal process is available in the institution's catalog.

(4) The statement of the student's right to appeal the denial shall include notice of the time limitations in B of this regulation.

B. A student believing that the receiving institution has denied the student transfer credits in violation of this chapter may initiate an appeal by contacting the receiving institution's transfer coordinator or other responsible official of the receiving institution within 20 working days of receiving notice of the denial of credit.

C. Response by Receiving Institution.

(1) A receiving institution shall:

- (a) Establish expeditious and simplified procedures governing the appeal of a denial of transfer of credit; and
 - (b) Respond to a student's appeal within 10 working days.
- (2) An institution may either grant or deny an appeal. The institution's reasons for denying the appeal shall be consistent with this chapter and conveyed to the student in written form.

(3) Unless a student appeals to the sending institution, the writing decision in C(2) of this regulation constitutes the receiving institution's final decision and is not subject to appeal.

D. Appeal to Sending Institution.

(1) If a student has been denied transfer credit after an appeal to the receiving institution, the student may request the sending institution to intercede on the student's behalf by contacting the transfer coordinator of the sending institution.

(2) A student shall make an appeal to the sending institution within 10 working days of having received the decision of the receiving institution.

E. Consultation Between Sending and Receiving Institutions.

(1) Representatives of the two institutions shall have 15 working days to resolve the issues involved in an appeal.

(2) As a result of a consultation in this section, the receiving institution may affirm, modify, or reverse its earlier decision.

(3) The receiving institution shall inform a student in writing of the result of the consultation.

(4) The decision arising out of a consultation constitutes the final decision of the receiving institution and is not subject to appeal.

.10 Periodic Review.

A. Report by Receiving Institution.

(1) A receiving institution shall report annually the progress of students who transfer from 2-year and 4-year institutions within the state to each community college and to the secretary of the Maryland Higher Education Commission.

(2) An annual report shall include ongoing reports on the subsequent academic success of enrolled transfer students, including graduation rates, by major subject areas.

(3) A receiving institution shall include in the reports comparable information on the progress of native students.

B. Transfer Coordinator. A public institution of higher education shall designate a transfer coordinator, who serves as a resource person to transfer students at either the sending or receiving campus. The transfer coordinator is responsible for overseeing the application of the policies and procedures outlined in this chapter and interpreting transfer policies to the individual student and to the institution.

C. The Maryland Higher Education Commission shall establish a permanent Student Transfer Advisory Committee that meets regularly to review transfer issues and recommend policy changes as needed. The Student Transfer Advisory Committee shall address issues of interpretation and implementation of this chapter.

Administrative History

Effective date: December 4, 1995 (22:24 Md. R. 1901)

Regulations .02, .03, and .05 amended. Effective date: July 1, 1996 (23:13 Md. R. 946)

Revised: February 11, 1998

Appendix C

RESIDENCY POLICY

I. RESIDENCE STATUS FOR TUITION PURPOSES

Upon advice of the Attorney General's Office, all eight criteria of permanent residence must be met for the entire twelve (12) month period preceding the last day of late registration.

It is the policy of the Board of Regents of the University System of Maryland to recognize the categories of in-state and out-of-state students for purposes of admission, tuition, and charge differentials at those constituent institutions where such differentiation has been established. The student is responsible for providing the information necessary to establish eligibility for in-state resident status.

Students who are financially independent or financially dependent, as defined herein, shall have their residency classification determined on the basis of permanent residency which for purposes of this policy shall be determined by the criteria set forth in I.A. through E. below. A student will be assigned in-state status for admission, tuition, and charge differential purposes only if the student, or in the case of a financially dependent student, the student's parent, guardian, or spouse, fulfills all of the following.

A. FOR AT LEAST TWELVE (12) CONSECUTIVE MONTHS immediately prior to and including the last date available to register for courses in the semester/term for which the petition applies, the student, or if the student is financially dependent, the parent, guardian, or spouse MUST:

1. Own and continuously occupy or rent and *continuously* occupy living quarters in Maryland. There must exist a genuine deed or lease in the individual's name reflecting payments/rents and terms typical of those in the community at the time executed. Persons not having such a lease may submit an affidavit reflecting payments/rent and terms as well as the name and address of the person to whom payments are made which may be considered as meeting this condition. As an alternative to ownership or rental of living quarters in Maryland, a student may share living quarters in Maryland which are owned or rented or occupied by a parent, legal guardian, or spouse;

2. Maintain within Maryland substantially all personal property;

3. Pay Maryland income taxes on all earned taxable income, including all taxable income earned outside the state;

4. Receive no public assistance from a state other than the State of Maryland or from a city, county, or municipal agency other than one in Maryland;

5. Have the legal ability under federal and Maryland law to reside permanently in Maryland without interruption.

B. For at least eleven (11) consecutive months immediately prior to and including the last date available to register for courses in the semester for which the application applies, the student, or if the student is financially dependent, the parent, guardian or spouse must:

1. Register all owned motor vehicles in Maryland; and

2. Obtain a valid driver's license issued by the State of Maryland, if licensed to drive in any other jurisdiction.

C. Within the twelve (12) consecutive months immediately prior to and including the last date available to register for courses in the semester for which the application applies, the student, or if the student is financially dependent, the parent, guardian, or spouse must register to vote in Maryland, if registered in any other jurisdiction.

D. A financially independent student classified as in-state loses that status at such time as the student no longer meets one or more of the criteria set forth in I.A.C. A financially dependent student classified as in-state loses that status at such time as the parent,

guardian or spouse on whom the status was based on longer meets one or more of those criteria.

E. In addition, persons in the following categories shall be accorded the benefits of in-state status for the period in which any of the following conditions apply:

1. A full-time or part-time (at least 50 percent time) regular employee of the University System of Maryland;

2. The spouse or dependent child of a full-time or part-time (at least 50 percent time) regular employee of the University System of Maryland;

3. A full-time active member of the Armed Forces of the United States whose home of residence is Maryland or one who resides or is stationed in Maryland, or the spouse, or a financially dependent child of such a person;

4. For UMUC, a full-time active member of the Armed Forces of the United States on active duty, or the spouse of a member of the Armed Forces of the United States on active duty;

5. A graduate assistant appointed through the University System of Maryland for the semester/term of the appointment. Except through prior approval arrangement, status is applicable only for enrollment at the institution awarding the assistantship.

F. Students not entitled to in-state status under the preceding paragraphs shall be assigned out-of-state status for admission, tuition, and charge-differential purposes.

II. PROCEDURES

A. An initial determination of in-state status will be made by the University at the time a student's application for admission is under consideration. The determination made at that time, and any determination made thereafter, shall prevail for each semester/term until the determination is successfully challenged in a timely manner.

B. A change in residency status must be requested by submitting a University System of Maryland "Petition for Change in Residency Classification for Admission, Tuition, and Charge Differential." A student applying for a change to in-state status must furnish all required documentation with the petition by the last published date to register for the forthcoming semester/term for which residency classification is being sought.

C. The student shall notify the institution in writing within fifteen (15) days of any change of circumstances which may alter in-state status.

D. In the event incomplete, false, or misleading information is presented, the institution may, at its discretion, revoke in-state status and take other disciplinary actions provided for by the institution's policy. If in-state status is gained due to false or misleading information, the university reserves the right to retroactively assess all out-of-state charges for each semester/term affected.

E. Each institution of the University System of Maryland shall develop and publish additional procedures to implement this policy. Procedures shall provide that on request the president or designee has the authority to waive any residency criterion as set forth in Section I, if it is determined that application of the criterion creates an unjust result. These procedures shall be filed with the Office of the Chancellor.

III. DEFINITIONS

A. Financially Dependent: For purposes of this policy, a financially dependent student is one who is claimed as a dependent for tax purposes, or who received more than one-half of his or her support from a parent, legal guardian, or spouse during the twelve (12) month period immediately prior to the last published date for registration for the semester or session. If a student receives more than one-half of his or her support in the aggregate from a parent and/or legal guardian and/or spouse, the student shall be considered financially dependent on the person providing the greater amount of support. The dependent relationship must have formally existed by legally contracted

marriage or court order recognized under the laws of the State of Maryland for at least 12 consecutive months prior to and including the last date available to register for courses in the semester/term for which the petition applies.

B. Financially Independent: A financially independent student is one who (1) declares himself or herself to be financially independent as defined herein; (2) does not appear as a dependent on the federal or state income tax return of any other person; (3) receives less than one-half of his or her support from any other person or persons; and (4) demonstrates that he or she provides through self-generated support one-half or more of his or her total expenses.

C. Parent: A parent may be a natural parent, or if established by a court order recognized under the laws of the State of Maryland, an adoptive parent.

D. Guardian: A guardian is a person so appointed by a court order recognized under the laws of the State of Maryland.

E. Spouse: A spouse is a partner in a legally contracted marriage as recognized under the laws of the State of Maryland.

F. Self-generated: describes income which is derived solely from compensation for an individual's own efforts as evidenced, for example, by federal or state W-2 forms or IRS Form 1099 where interest income is based upon finances created from one's own efforts. For the purposes of this policy, grants, stipends, awards, benefits, loans, and gifts (including federal and state aid, grants, and loans) may not be used as self-generated income.

G. Regular Employee: A regular employee is a person employed by the University System of Maryland who is assigned to a state budget line. Examples of categories NOT considered regular employees are graduate assistants, contingent employees, if-and-when-needed, and temporaries.

IV. RESIDENCY TUITION APPEAL PROCEDURE

A. Prerequisites:

1. In order to appeal a residency tuition denial, you must first have been denied in-state residency status by one of the following:

- (a) The Admissions Office
- (b) The Graduate School
- (c) Enrollment Services

2. If you have not been denied by one of the above, please contact the appropriate office for instructions.

B. Appeal Process:

After your petition for in-state status has been denied by one of the offices listed above, you may appeal the decision of denial as follows:

1. Write a formal letter of appeal stating pertinent facts about your case. You must address the issues of the original denial. The appeal must be filed within 15 working days from the date of the initial denial letter.

2. Address your appeal letter to the Towson University Residency Tuition Review Committee (RTRC), c/o Director of the Bursar's Office, Enrollment Services Center, Towson University, Towson, MD 21252-0001. Include your current local address and Social Security number.

(a) You may submit any clarification or additional documentation with the letter of appeal.

(b) Temporary Tuition Payment: Pending Appeal. If you wish to pay in-state tuition until your appeal has been resolved, you must obtain a "Pending Memo" from the office with which you originally filed materials. Please contact the appropriate office.

Appendix D

THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA, a.k.a. Buckley Amendment)

The Family Educational Rights and Privacy Act of 1974, as revised, is a federal law requiring the institution to maintain the confidentiality of student educational records. This law states that a) a written institutional policy must be established and b) a statement of adopted procedures covering the privacy of students be made available. The university has taken the appropriate steps to comply with this law.

Towson University accords all the rights under the law to students who have reached the age of majority. Information may be released to parents who have established students' dependency as defined by the Internal Revenue Code of 1954, Section 152. The Judicial Affairs office will review the parent's claim of dependency and notify students of the claim prior to release of any academic information. Except as permitted under the Act, no one outside the institution will have access to any information from students' education records without their written consent. Those permitted access under the Act include personnel within the institution, officials of other institutions in which students seek to enroll, persons or organizations providing financial aid, accrediting agencies, persons in compliance with a judicial order, and persons acting in an emergency situation to protect the health or safety of others.

Within the Towson University community, only those individuals acting in students' educational interest are allowed access to student education records. These include personnel in the offices of Admissions, Academic Advising, Enrollment Services, Bursar, Financial Aid, and other academic personnel within the limitations of their need to know. The director of Enrollment Services may grant access to education records for other legitimate reasons permitted under the Act.

The university may provide Directory Information in accordance with the provisions of the Act without the written consent of students. Directory Information includes student name, address, telephone number(s), date and place of birth, major field of study, dates of attendance, degrees and awards received, the most recent previous educational institution attended by students, participation in officially recognized activities and sports, and the weight and height of members of athletic teams. Enrollment Services will release Directory Information at its discretion and may release it over the telephone or in writing. Students may withhold Directory Information by notifying Enrollment Services in writing within two weeks after the first day of classes.

Requests for non-disclosure will be honored for only one academic year; thereafter, authorization to withhold Directory Information must be filed annually with the director of Enrollment Services.

The Act also provides students with the right to inspect and review information contained in their education records. The director of Enrollment Services at Towson University has been designated to coordinate the inspection and review of student education records. Students wishing to review their education records must make written requests to the Records Office. Records covered by the Act will be made available within 30 days of the request. Students may have copies made of their records at their expense with certain exceptions (e.g., copies of the original or source document that exists elsewhere or when students have an outstanding financial obligation to the university). Education records do not necessarily include records of instructional, administrative, or educational personnel, which are the sole possession of the makers. Health records, employment records,

or alumni records will not be released to students but may be reviewed by them or by physicians of their choosing.

FERPA does not allow students to inspect and review the following: financial information submitted by their parents, confidential letters and recommendations associated with admissions, employment or job placement, or honors to which they have waived their rights of inspection and review. Education records containing information about more than one student are restricted, and the institution will permit access only to that part of the records that pertains to the individual student. The institution will not permit students to inspect and review confidential letters and recommendations placed in their files prior to January 1, 1975.

The university has established an appeal mechanism in accordance with the Act. Students who believe their education records contain inaccurate, misleading, or unlawful information may discuss their problems informally with the director of Enrollment Services. If the director agrees with the request, the appropriate records will be amended. If students' requests are denied, they will be notified by the director of the right to a formal hearing.

Requests for formal hearings must be made in writing to the vice president for Student Life, who will inform students of the date, place and time of the hearing. Students may present evidence and may be assisted or represented at the hearings by counsel. The hearing panel that will adjudicate such challenges may include the vice president for Academic Affairs, the vice president for Student Life, the dean of the Graduate School, and the academic dean of students' colleges, or their designees. Decisions of the hearing panel will be final. The findings will be based solely on the evidence presented at the hearing and will consist of written statements summarizing the evidence and stating the reasons for the decisions, and will be delivered to all parties concerned. The education records will be corrected or amended in accordance with the decisions of the hearing panel. Students dissatisfied with the outcome of their hearings may prepare a written statement to be placed in the education records and maintained as part of students' records.

Students who believe the adjudications of the challenges were unfair or not in keeping with the provisions of FERPA may request that the hearing be reviewed by the president of the university. In addition, students who believe their rights have been abridged may file complaints with The Family Educational Rights and Privacy Act office (FERPA), Department of Health, Education, and Welfare, Washington, D.C. 20201, concerning the alleged failures of Towson University to comply with the Act.

Revisions and clarifications of this policy will be published as the law warrants.

Appendix E

FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS (SAP) POLICY

Financial aid recipients must make satisfactory academic progress toward the completion of a degree while maintaining good standing as defined in the university catalogs.

The policy measures three areas:

- Number of credits completed;
- Quality Point Average;
- Time frame to completion of degree.

SAP CRITERIA

Undergraduate and graduate students must successfully complete 67% of attempted credits each academic year and must have the minimum cumulative Quality Point Average (QPA) shown below:

Credits Attempted:	Undergraduate		Graduate	
	Minimum Cumulative QPA	Must Earn:	Minimum Cumulative QPA	Must Earn:
1-29.5	1.5		3.0	
30-59.5	1.75	67%	3.0	67%
60 or more	2.00		3.0	
Timeframe: Must complete degree within 180 attempted hours.			Timeframe: Must complete within seven years.	

EXAMPLE:

A student who has attempted 60 hours must have a cumulative quality point average of at least 2.00 and must have successfully completed at least 40 credits (67% of all credits attempted).

ADDITIONAL INFORMATION:

- Developmental courses do not count as attempted and/or earned and cannot exceed 24 credits without permission from the Financial Aid Appeals Committee.
- Only courses completed with an earned letter grade or passed under Pass/Fail provision count toward credits completed. Course work earning the following grades will not count as credits completed: AU (Audit), W (Withdraw), I (Incomplete), U (Unsatisfactory), F or FX (Failure).
- The exclusion of credits attempted for one medical withdrawal semester requires approval from the Financial Aid Appeals Committee.
- Students who have aid canceled because of failure to comply with the SAP criteria may appeal to the Financial Aid Appeals Committee. Appeals must be written, and include a statement outlining the causes of poor academic performance and a formal plan for regaining compliance with the policy. If the Appeals Committee approves the appeal, the student will receive an aid offer of funds available at the time of approval.

Appendix F

CODE OF CONDUCT

I. Student Rights and Responsibilities

A. Preamble

Academic institutions exist for the transmission of knowledge, the pursuit of truth, the development of students, and the general well being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of the academic community, students should be encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth. Freedom to teach and freedom to learn are inseparable facets of academic freedom. The freedom to learn depends upon appropriate opportunities and conditions in the classroom, on the campus, and in the larger community. Students should exercise their freedom with responsibility. The responsibility to secure and respect general conditions conducive to the freedom to learn is shared by all members of the community. The present code is designed to establish policies and procedures which provide and safeguard this freedom.

B. Purpose

Towson University's mission to the community at large is one of academic excellence and achievement. To that end, its campus community must be one wherein respect for the individual pursuit of academic excellence and achievement is given priority. In order to foster this environment, it is incumbent upon students to conduct themselves within the framework of the reasonable rules and regulations designed to enhance and protect the academic environment of the university. By specifying behavioral standards and by establishing fair and efficient processes for adjudicating conflict, the university seeks to protect the environment in which learning is nurtured and respect for that goal is continually afforded.

C. Individual Rights and Responsibilities

1. Access to higher education

a. Within the limits of its facilities, the institution and its courses, programs and activities shall be open to all applicants who are qualified, according to its admission requirements.

1. The institution shall, in the University Catalog, make clear to the students the standards of its programs.

2. Admission to Towson University shall be in compliance with federal and state laws and regulations that prohibit illegal discrimination.

2. Classroom Expression

a. Discussion and expression of all views relevant to the subject matter are permitted in the classroom, subject only to the responsibility of the instructor to maintain order and reasonable academic progress.

1. Faculty comportment shall be in accordance with standards set forth by the American Association of University Professors.

2. Students shall not be penalized for expressing controversial views relevant to the subject matter in class.

b. Evaluation of a student's academic performance shall be neither prejudiced nor capricious.

3. Personal Expression

a. Discussion and expression of all views is permitted within the institution subject only to requirements for the maintenance of order. Support of any cause, by orderly means which do not disrupt the operation of the institution, is permitted.

b. Students, groups, and campus organizations may invite to hear any persons of their own choosing, subject only to the requirements of the use of institutional facilities and regulations of the university, and the Board of Regents of the University System of Maryland.

c. Students' dress and grooming, of any style, are permitted subject to legal prohibitions.

d. Students, groups, or organizations may distribute written material on campus, providing such distribution does not disrupt the operations of the institution or deface property and adheres to the Advertising Policy and/or the Distribution and Solicitation Policy which is available at the University Union, Information Desk (410-830-4636).

e. The right of assembly is granted within the institutional community. The institution retains the right to assure the safety of individuals, the protection of property, and the continuity of the educational process.

f. Orderly picketing and other forms of peaceful protest are permitted on institutional premises. Interference with entrances to institutional facilities, intentional interruption of classes, or damage to property exceeds permissible limits.

g. Orderly picketing and orderly demonstrations are permitted in public areas within institutional buildings subject to the requirements of non-inference.

h. Every student has the option to be interviewed on campus by an organization authorized to recruit at the institution.

4. Privacy

a. Students have the same rights of privacy as any other citizens and surrender none of those rights by becoming members of the academic community.

b. Information about student views, beliefs, and political associations acquired by faculty and staff in the course of their work as instructors, advisers and counselors is confidential and is not to be disclosed to others unless under legal compulsion or with permission of the student.

c. The privacy and confidentiality of all student records shall be preserved. Official student academic records, supporting documents, and other student files shall be maintained only by full-time members of the institution's staff employed for that purpose and students employed by them who may have access in line of employment. Separate files shall be maintained for the following: academic records, supporting documents and general educational records, records of disciplinary proceedings, medical and psychiatric records, and financial aid records.

d. No entry may be made on a student's academic record and no document may be placed in the student's file without actual notice to the student.

e. Every student is guaranteed the right to inspect and review all information in his or her own files maintained by the Office of Judicial Affairs, subject only to reasonable regulations as to time, place and supervision. However, the student may not have copies of items in a file.

1) A student may challenge the accuracy or presence of any item by following the standard appeal process (see Appeal Procedures below).

2) When a case is referred, a disciplinary file may be developed in the name of the charged student.

3) The file will be voided if the charges against the student are not substantiated.

4) The file will be retained for five years or until graduation if the charges are substantiated. Disciplinary records may be retained for longer periods of time or permanently if the sanction is suspension or expulsion from the university or university housing.

5) Any record, file, or incident report to which the student has access and an opportunity to respond, or records of previous hearings, may be taken into consideration by the decision-maker in arriving at an appropriate decision.

6) The Judicial Affairs Office reserves the right to notify parents of dependent students who are found responsible for violations of the Code of Student Conduct.

f. No record may be made in relation to any of the following matters except upon the express written request of the

student: religion, political or social views, and membership in any organization other than honorary and professional organizations directly related to the educational process.

g. Agencies of the university which keep student records must make students aware of how and to whom those records may be divulged. No information in any student file may be released to anyone except with prior written consent of the student concerned or as stated below.

1) Administrators may have access to student records for internal educational and administrative purposes.

2) Members of the faculty may have access to academic records for internal educational and administrative purposes.

3) Non-academic records shall be routinely available only to administrators and staff charged with their maintenance. Faculty and staff may have access to all records for statistical purposes.

4) Directory information, as defined in Appendix F, may be released to any inquirer unless the student has specifically asked the director of Enrollment Services to withhold that information.

5) Unless under legal compulsion, all other information regarding students' records shall be denied to any person making an inquiry.

h. Upon graduation or withdrawal from the institution, the records and files of former students shall continue to be subject to the provisions of this code.

D. Rights and Responsibilities of Campus Organizations

1. Organizations, groups, and NCAA teams may be established within the institution for any legal purpose. Their recognition will be in accordance with established guidelines.

2. Membership in all institution-related organizations, within the limits of their facilities, shall be open to any fee-paying member of the institution community who is willing to subscribe to the stated aims and meet the stated obligations of the organization.

3. Individual members, as well as the organization, group, or team itself, can be charged with violations of the Code of Student Conduct, including those actions defined in the "Hazing, Pre-Initiation Activities" section of this document.

4. Use of university facilities shall be granted to recognized student organizations. Student organizations shall be given priority for use of space as outlined in procedures established by Event and Conference Services and the Student Government Association.

5. The authority to allocate institutional funds derived from student fees for use by organizations shall be delegated to a body in which student participation in the decision-making process is assured.

a. Approval of requests for funds is conditional upon submission of budgets to and approval by this body.

b. Financial accountability, in full accordance with university and state policies, regulations, procedures and practices, is required for all allocated funds, including statement of income and expenses on a regular basis.

c. Otherwise, organizations shall have independent control over the expenditure of allocated funds.

6. The student press is to be free of censorship. The editors and managers shall not be arbitrarily suspended because of student, faculty, administration, alumni or community disapproval of editorial policy or content. Similar freedom is assured oral statements of views on institution-controlled and student-operated radio or television stations. This editorial freedom entails a corollary obligation under the canons of responsible journalism and applicable regulations of the Federal Communications Commission.

7. All student communications shall explicitly state that the opinions expressed are not necessarily those of the institution or its student body.

E. Rights of Students in Institutional Government

1. All constituents of the institutional community are free, individually and collectively, to express their views on issues of institutional policy and on matters of interest to the student body. Clearly defined means shall be provided for student expression on all institutional policies affecting academic and student affairs.

2. The role of student government and its responsibilities shall be made explicit. There should be no review of student government actions except where review procedures are agreed upon in advance, or where actions of the government are either potentially illegal or present a clear danger to either individual or institutional rights.

3. On questions of educational policy, students are entitled to a participatory function. Students shall be designated as members of standing and special committees concerned with institutional policy affecting academic and student affairs, including those concerned with curriculum, discipline, admission, academic standards, university governance and allocation of student funds.

F. Student Grievance Procedures

1. Any student or group may file a grievance against an administrative official or faculty member for violation of student rights as listed above.

2. The Judicial Affairs Office may make a preliminary investigation to determine whether the charges can be disposed of informally by mutual consent without the initiation of official proceedings.

3. If the charges cannot be disposed of informally, the student or group may file an appeal to the Student Appeals Committee.

II. Code of Student Conduct

A. Rationale

The primary purpose for the imposition of discipline in the university setting is to protect the campus community. Consistent with that purpose, reasonable efforts will also be made to foster the personal, educational, and social development of those students who are held accountable for violations of university regulations. However, the university must commit its policies and procedures first of all to protect and promote the academic enterprise. Consequently, it may be necessary to suspend or expel students who have been found responsible for violations of this Code, or who otherwise pose a substantial danger to the campus community.

B. Definitions

1. The terms "university" and "institution" mean Towson University (TU).

2. The term "student" includes all persons taking courses at the university, both full-time and part-time, pursuing undergraduate, graduate, professional, certificate, or continuing studies. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the university are considered "students."

3. The term "faculty member" and "instructor" mean any person hired by the university to conduct classroom activities.

4. The term "university official" includes any person employed by the university, performing assigned administrative, professional, or paraprofessional responsibilities (including student resident assistants and building managers).

5. The term "member of the university community" includes any person who is a student, faculty member, university official, or any other person employed by the university.

6. The term "university premises" includes all land, buildings, facilities, and other property in the possession of or owned, used, or controlled by the university (including adjacent streets and sidewalks).

7. The term "organization" means any number of persons who have complied with formal requirements for university recognition (including SGA, Greek, and NCAA).

8. The term "group" means a number of persons who are associated with each other but who have not complied with university requirements for registration as an organization.

9. The term "Hearing Board" means the hearing officer and judicial aides authorized by the director of Judicial Affairs to determine whether a student has violated the Code of Student Conduct.

10. The director of Judicial Affairs is that person designated by the university President to be responsible for the administration of the Code of Student Conduct.

11. The term "policy" is defined as the written regulations of the university as found in, but not limited to, the Code of Student Conduct, the Policies for University Housing, the Faculty Handbook, the University Catalog, the Towson University Procedures for Alcohol Events, and the Event and Conference Services Guide for Student Organizations.

12. The term "academic dishonesty" is defined in the section of this policy entitled "Academic Dishonesty."

13. The term "interim disciplinary action" means discipline which is imposed pending the outcome of a court case for off-campus behavior.

14. The term "banned from campus" means that a student is prohibited from coming onto university property. A student who is banned from campus may be allowed to finish current course work off campus, if appropriate, and a tuition refund may be granted. As a result of a ban, the student will not have a permanent file in the Office of Judicial Affairs. A ban will normally only be issued after the student has been offered a meeting with a representative of the Office of Judicial Affairs.

C. Scope

1. Generally, student or group conduct subject to institutional discipline is limited to: on-campus actions; off-campus actions which affect the university community or the university's pursuit of its mission, policies or procedures; off-campus actions by officially sponsored organizations, groups, or NCAA teams; or actions on university property which is leased to, or managed by, an entity other than the university.

2. However, a student charged with a violation of federal, state, or local laws for off-campus behavior may be disciplined by the university without a judicial board hearing when: the student is found guilty by a court of law; the student pleads guilty or nolo contendere to the charges; the student is given probation before judgment; or, the case is settled.

Additionally, interim or final disciplinary action may be taken before any court action is completed. Examples of charges that may result in action include acts of violence, drug and alcohol related violations, and a citation for a disorderly house. Such action will be taken only after a limited investigation by the Judicial Affairs Office and after the student has been offered a meeting with a university official. Any interim action shall be reviewed, and appropriate final action taken, at the student's request or at the university's discretion, when a final court decision is rendered or when the university receives additional persuasive evidence.

3. Some conduct clearly disturbs only the campus environment; when such behavior occurs, the university shall take internal action.

4. At all times, the university seeks to resolve conflict and protect its community at the most immediate level. Review and resolution of conflict without having to involve university judicial bodies is desirable. The university's Code of Student Conduct is most successful when formal procedures are not necessary.

5. When there is evidence that a student has committed a crime on campus, disciplinary action at the university will normally proceed independently of pending criminal charges, including when charges involving the same incident have been dismissed or dropped. The student may then be subject to civil authorities as well as internal disciplinary action.

6. When a student is charged with a violation of one or more provisions of this Code, a charge letter arranging a meeting with a representative of the judicial affairs office will be sent to that student within a reasonable amount of time. At the meeting, the student will be informed of:

- a. specific violation
- b. description of alleged incident
- c. hearing or disciplinary conference procedure
- d. rights of appeal

D. Prohibited Conduct

The following misconduct is subject to disciplinary action:

- 1a. intentionally furnishing false information to the institution
- 1b. forging, altering, or using institutional documents or instruments of identification with intent to defraud, or to otherwise benefit therefrom
- 2a. disruption or obstruction of teaching, research, administration or disciplinary proceedings
- 2b. disruption or obstruction of university sponsored activities or events
- 2c. lewd, obscene or indecent behavior
- 3. physical abuse of any person
- 4a. threats of violence or placing a person in fear of imminent physical injury or danger
- 4b. inflicting mental or emotional distress upon a person through a course of conduct involving abuse or disparagement of that person's race, religion, sex, creed, sexual orientation, age, national origin or disability
- 4c. any endangering conduct that imperils or jeopardizes the health or safety of any person or persons, including oneself
- 5. all forms of sexual assault including, but not limited to, rape, date/acquaintance rape, or other non-consensual verbal or physical conduct of a sexual nature
- 6. abuse of any person; this includes verbal, written, email abuse, or telephone abuse
- 7. intentionally or recklessly damaging, destroying, defacing or tampering with university, public or personal property of another
- 8. uncooperative behavior and/or failure to comply with proper instructions of officials acting in performance of their duties
- 9. violation of published institutional regulations and policies
- 10. violation of state, federal and local laws
- 11. unauthorized presence in institutional facilities
- 12a. the possession or use of illegal drugs or drug paraphernalia when not in accordance with established policy
- 12b. the sale, distribution or manufacture of illegal drugs when not in accordance with established policy.
- 13. the possession or use of any firearms or instrument which may be construed as a weapon, without express permission of the University Police.
- 14. the possession of explosives, fireworks, or pyrotechnic paraphernalia on campus.
- 15a. the possession or use of alcoholic beverages when not in accordance with established policy
- 15b. public intoxication
- 16. the unauthorized use of or entry into university computer systems
- 17. violation of the university housing contract
- 18. violation of any disciplinary sanction
- 19. charging telephone or telecommunications charges to university telephones or extension numbers without authorization
- 20. theft, attempted theft, possession of stolen property, conspiracy to steal or misappropriation of another's property. This includes, but is not limited to, removing, possessing, concealing, altering, tampering or otherwise appropriating goods or property without authorization.

E. Penalties

The following penalties may be imposed upon students and all student organizations for violations of the Code of Student Conduct. With only two exceptions, federal regulation prohibits disclosing the outcome of judicial proceedings to anyone other than to the accused and to appropriate university personnel. The first exception relates to allegations of sexual assault: in those cases, the university will disclose to the victim of a sexual offense the outcome of any investigation by University Police or the Judicial Affairs Office pursuant to the victim's complaint against the alleged perpetrator of the sexual offense. The second case relates to alcohol and drug violations: the parents of students under the age of 21 may be notified when students are found responsible for violations of the university's alcohol or drug policies.

1. **CENSURE:** A written reprimand for violation of specified regulations, including a warning that continuation or repetition of prohibited conduct may be cause for additional disciplinary action. This may include a specified period of probation.

2. **PROBATION:** Notice to the student that any further disciplinary violation, during a specified period of time, may result in suspension or expulsion from the university and or university housing.

3. **SOCIAL PROBATION:** Exclusion from participation in privileged or extracurricular institutional activities, including NCAA athletic events or practice, for a specified period of time. Additional restrictions or conditions may also be imposed. Violations of the terms of social probation, or any other violation of this Code during the period of probation, will at times result in a fine, suspension or expulsion from the university.

4. **SUSPENSION:** Suspension involves separation of the student from the university for a specified period of time and usually impairs a student's ability to pursue work at other colleges and universities. Normally, the student will also be barred from university premises during the period of suspension. Any student who is suspended shall not be entitled to any tuition or fee refund.

5. **EXPULSION:** Expulsion constitutes permanent separation of the student from the university. Any student who is expelled shall not be entitled to any tuition or fee refund.

6. **SUSPENSION OF GROUP:** Suspension shall consist of the withdrawal of an organization's recognition by the university, for a stated period of time, when an organization is found to have violated regulations. Suspension shall result in complete suspension of activities of the group during the stated period of time and may also include conditions for removal of suspension.

7. **ORGANIZATIONAL DISSOLUTION:** Organizational dissolution is a sanction imposed only upon student organizations guilty of serious and/or repeated violations of these standards. The sanctions involve permanent withdrawal of recognition by the university, denial of the use of university facilities or funds, and official dissolution of the organization on the campus.

8. **RESTITUTION:** Restitution may be imposed on students whose violation has involved monetary loss or damage. Fines may be imposed in addition to restitution. Restitution becomes a financial obligation to the university and either full payment or an agreement for partial payment according to a schedule agreed to by the director of Judicial Affairs is required before a student may register for classes again, or in the case of seniors, before the student may graduate.

9. **TERMINATION OF UNIVERSITY HOUSING CONTRACT:** Termination of a student's university housing contract may be imposed in order to safeguard the residence community if the seriousness of the violation warrants such action.

10. **FINES:** Fines of varying amounts may be imposed for certain violations, such as alcohol and drug related incidents. Fines must be paid prior to the end of the current semester, otherwise a student's registration privileges will be withheld or prior registration canceled.

11. **OTHER SANCTIONS:** Other sanctions may be imposed instead of or in addition to those specified above. For example, students may be subject to restrictions upon or denials of university parking privileges for violations involving the use or registration of motor vehicles on campus; sanction hours or research projects may be assigned; or the university housing contract may be placed on probation.

12. **DRUG PENALTIES:** (see Substance Abuse Policy below)

F. Standards and Procedures of Due Process

1. Students subject to suspension or expulsion from the university will be entitled to a judicial board hearing, except as described in section C.2. With the exception of allegations of academic dishonesty (see the section below: Academic Dishonesty), students subject to any other sanction will be entitled to a disciplinary conference.

2. The purpose of a disciplinary proceeding is to provide a fair evaluation of an accused's responsibility for violating disciplinary regulations. Although formal rules of evidence need not be applied, procedures shall comport with standards of fundamental fairness. Harmless deviations from the prescribed procedures shall not necessarily invalidate a decision or proceeding unless significant prejudice to an accused student or the university may result.

3. Any person may refer students or student groups or organizations suspected of violating this Code to the Judicial Affairs Office. Allegations of violations occurring within university housing should be referred to the Office of Housing & Residence Life. Those referring cases are normally expected to serve as a witness and to present relevant evidence in disciplinary hearings or conferences. The director of Judicial Affairs may appoint a member of the campus community to serve as an adviser to university witnesses. The role of the adviser shall be limited to consultation with the witnesses.

4. Suspensions and expulsions from the university will be made by the vice president for Student Life, or designee. All other sanctions will be determined by the director of Judicial Affairs, or designee. In all cases, the accused will be notified in writing of any sanctions to be imposed and of his or her rights of appeal.

G. Disciplinary Conference and University Hearing Procedure

1. **Disciplinary Conference:** The conference procedure is designed to reduce unnecessary proceduralism and potential contentiousness in disciplinary proceedings. A disciplinary conference will normally consist of an informal, non-adversarial meeting between the accused and a university administrator, as designated by the director of Judicial Affairs. Witnesses are not required to participate, unless cross-examination is necessary to resolve a dispositive factual issue. Documentary evidence, written statements, and hearsay can be relied upon. The accused will be given access to documentary evidence and written statements in advance or during the conference and allowed to respond to them. Accused are also allowed to call appropriate and relevant witnesses.

The following procedural protections are provided to respondents in disciplinary conferences:

a. written notice of the specific charges prior to the scheduled conference;

b. reasonable access to the case file prior to and during the conference;

c. an opportunity to respond to the evidence and call appropriate and relevant witnesses.

2. **University Hearing:** The following procedural guidelines shall be observed for all hearings held by the University Hearing Board. The University Hearing Board will be composed of the hearing officer, who shall preside and make the final decision, and one or two student judicial aides. In the absence of the judicial aides, the hearing officer may hear and decide the case alone. A case may not be heard if the hearing officer, or designated sub-

stitute, is not in attendance. The hearing officer shall be responsible for submitting the hearing panel's report to the Judicial Affairs Office.

a. The accused shall be given notice of the hearing date and the specific charges against him or her at least three calendar days in advance and shall be accorded reasonable access to the case file, which will be retained in the Judicial Affairs. (In some cases, the accused may choose not to wait three days for a hearing to take place.)

b. The hearing will be tape recorded.

c. The accused will be present for the hearing. If the accused fails to appear, this will be stated for the record and the hearing will continue.

d. The accused and the complainant may be accompanied by a friendly observer. This party may not be or act as legal counsel, except when concurrent criminal charges have been filed. Then counsel may not participate in the hearing, but may advise the accused.

e. The hearing officer shall exercise control over the proceedings to avoid needless consumption of time and to achieve orderly completion of the hearing. Any person, including the accused, who disrupts a hearing may be excluded by the hearing officer.

f. Witnesses shall be asked to affirm that their testimony is truthful and may be subject to charges of intentionally providing false information to the university.

g. Prospective witnesses, other than the complainant and the accused, will be excluded from the hearing during the testimony of other witnesses. In some cases, a university official may be present to offer relevant information regarding university policies and procedures. All parties and witnesses shall be excluded during hearing panel deliberations after the hearing.

h. The burden of proof shall be upon the university, which must establish the responsibility of the accused by a preponderance of the evidence. "Preponderance of the evidence" is that evidence which, when fairly considered, produces the stronger impression, has the greater weight, and is more convincing as to its truth when weighed against the evidence in opposition thereto.

i. Formal rules of evidence shall not be applicable in disciplinary proceedings conducted pursuant to this Code. The hearing officer shall admit all matters into evidence that reasonable persons would accept as having probative value, including documentary evidence, written statements, and hearsay. Repetitious or irrelevant evidence may, however, be excluded.

j. Documentary evidence and written statements shall only be admitted into evidence if available to the accused before or during the hearing.

k. Complainants and accused shall be allowed to call witnesses and accorded an opportunity to question those witnesses who testify for either party at the hearing.

l. The director of Judicial Affairs may appoint a special hearing panel member in complex cases. Special panel members may question all parties, participate in hearing panel deliberations, and offer advice to the hearing officer.

m. The hearing will conclude with the accused making a final summation or statement.

n. The hearing officer's report will be presented to the Judicial Affairs Office within 72 hours. The student may view the hearing officer's written report by appointment.

o. The accused will receive the decision in writing from the vice president for Student Life or designee.

p. The taped records will be kept on file in the Judicial Affairs Office for one semester following the hearing.

H. Judicial Hearings for Student Organizations, Groups, and NCAA Teams

1. Student organizations, groups, and NCAA teams (referred to here collectively as "group") may be charged with violations of the Towson University Code of Student Conduct.

2. When one or more members of a group are charged with a violation of the Code of Student Conduct, the university may charge the group as well. A student group and its officers may be held collectively and individually responsible when violations of this Code by those associated with the group have received the consent or encouragement of the group or of the group's leaders or officers.

3. A position of leadership in a student group entails responsibility. Student officers or leaders cannot knowingly permit, condone, or acquiesce in any violation of this Code by the group. This section of the Code is designed, in part, to hold a group and its officers accountable for any act of hazing. The express or implied "consent" of the victim or participant is not a defense.

4. The officers, leaders, or any identifiable spokesperson for a student group may be directed by the vice president for Student Life or designee to take appropriate action designed to prevent or end violations of this Code by the group. Failure to make reasonable efforts to comply with the vice president for Student Life's directive shall be considered a violation of this Code, both by the officers, leaders, or spokesperson for the group and by the group itself.

5. A disciplinary conference for student groups will be conducted in a manner similar to the procedures listed above. Conferences shall be conducted with one spokesperson representing the group, usually the president. Any sanction listed in the Code of Student Conduct may be imposed on a group and its individual members. If individual members are subject to suspension or expulsion from the university for actions of the group, those individuals will be offered a judicial board hearing.

I. Emergency Suspensions

1. When there is evidence that the continued presence of a student on the university campus poses a substantial threat to him/herself or others, or to the stability and continuance of normal university functions, the vice president for Student Life, or designee, may immediately suspend a student from any or all university activities, including university housing, for an interim period pending a hearing or medical evaluation. Such an emergency suspension may become effective immediately without prior notice.

2. An emergency suspension may be imposed only:

a. to ensure the safety and well-being of members of the university community;

b. to ensure the student's own physical or emotional safety and well-being;

c. if the student poses a definite threat of disruption of or interference with the normal operations of the university.

3. A student issued an emergency suspension shall be denied access, as determined appropriate by the vice president for Student Life, or designee, to:

a. the entire campus, including classes;

b. university housing and dining facilities;

c. all other activities or privileges for which the student might otherwise be eligible.

4. In these cases, a university hearing or medical evaluation will be scheduled as soon as is practicable.

J. Appeal Procedures

1. Any disciplinary determination resulting in expulsion or suspension from the university may be appealed to:

a. the Student Appeals Committee

b. the president of the university

2. Any disciplinary determination resulting in suspension from university housing may be appealed to: the Student Appeals Committee.

3. Any disciplinary determination resulting in any lesser sanction may be appealed to: the vice president for Student Life. The basis for appeal of a disciplinary sanction must be one of the following:

a. a flaw in the student's right of due process

b. evident bias in the decision of the hearing board or the individual conducting a disciplinary conference

- c. inconsistent or overly severe sanction imposed
- d. new evidence or insufficient consideration of all aspects of the situation

Appeals must be submitted in writing to the Office of Judicial Affairs within five business days after receipt of the sanction letter. Failure to appeal within the allotted time will render the original decision final and conclusive. Appeals shall be decided upon the record of the original proceedings, written letters submitted by the parties, and any further information requested by the committee.

Normally, new hearings will not be conducted on appeal. The imposition of sanctions will be deferred during the appeal process unless, in the judgment of the vice president for Student Life, or designee, the continued presence of the student on the campus or in university housing poses a substantial threat to him/herself or to others, or to the stability and continuance of normal university functions.

4. When a student has a dispute about a grade or substantive academic matter, the appeal process is:

- a. instructor
- b. department chairperson
- c. college dean
- d. Student Appeals Committee

In cases involving the awarding of grades, the Student Appeals Committee normally reviews whether a grade was determined in accordance with the terms set forth at the beginning of the semester by the instructor, normally as outlined in the course syllabus. Disputes regarding the grading of a particular piece of work shall be assigned to the appropriate chairperson who shall establish impartial means to conduct a review of the grade.

5. When a graduate student appeals a sanction imposed by a department for violation of established professional standards, the appeal process is:

- a. department chairperson
- b. college dean
- c. Graduate Studies Committee
- d. Student Appeals Committee

ACADEMIC DISHONESTY

Academic dishonesty in any form is unacceptable at Towson University. If a faculty member has evidence that a student's class-related behavior constitutes academic dishonesty, the faculty member may determine the course-related sanction to be imposed against the student, up to and including failure for the course. A letter must be sent to the student stating the imposed sanction and informing the student of his/her right to appeal. A copy of this letter should be sent to the director of Judicial Affairs. The route of appeal for a faculty-imposed sanction is:

- a. department chairperson
- b. college dean
- c. Student Appeals Committee
- d. provost and vice president for Academic Affairs

Definition

Academic dishonesty is an act of fraud, which may include misrepresentation, deceit, falsification, or trickery of any kind that is done by the student with the purpose, intent, or expectation of influencing a grade or other academic evaluation. Academic dishonesty also includes forgery and falsification of university academic documents, intentionally impeding or damaging the academic work of others, or assisting other students in acts of dishonesty. Common examples of academically dishonest behavior include, but are not limited to, the following:

1. Cheating: Intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise; copying from another student's examination; representing material prepared by another as one's own work; violating rules governing administration of examinations.

2. Fabrication: Intentional and unauthorized falsification or invention of any information or citation in an academic exercise.

3. Facilitating academic dishonesty: Intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.

4. Plagiarism: Intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise; failure to attribute direct quotation, paraphrase, or borrowed fact or information.

(Plagiarism is an often misunderstood kind of cheating. It is a form of theft in which another person's ideas or words are presented as one's own. In its most blatant form it involves copying material word for word from a book or article and failing to use quotation marks and proper documentation. Most plagiarism, however, is not as blatant. If one borrows phrases, even key words, from a written source, these must be quoted and documented with a footnote. In like manner, ideas or sequences of ideas which one borrows from a written source require documentation with either footnotes or textual references to the source. These latter forms of plagiarism often result more from carelessness than deliberate dishonesty; however, plagiarism in any form is a serious offense.)

HAZING, PRE-INITIATION POLICY

"Hazing," in any form is against the law (Annotated Code of Maryland, Article 27, Section 268H) and is strictly prohibited at Towson University. When this policy is violated, action may be taken against all participants, including pledges. "Hazing" is defined as any action taken or situation created, intentionally, whether on or off campus to produce mental or physical discomfort, embarrassment, harassment or ridicule. Such activities and situations include but are not limited to paddling in any form; creation of excessive fatigue; physical and psychological shocks; quests, treasure hunts, scavenger hunts, road trips, or any other such activities carried on outside the confines of the house; wearing, publicly, apparel which is conspicuous and not normally in good taste; engaging in public stunts and buffoonery; morally degrading or humiliating games and activities, late night sessions which interfere with scholastic activities; and any other activities which are not consistent with the academic mission of the university.

Students may bring their concerns regarding hazing to the Office of Student Activities.

NON-DISCRIMINATION POLICY

Towson University is in compliance with federal and state laws and regulations that prohibit illegal discrimination. The university does not discriminate on the basis of sexual orientation. Sexual harassment (see following section) is considered a form of sexual discrimination.

Procedure for Filing and Investigating Complaints of Discrimination in Education or Employment:

Students and employees may bring concerns about discrimination or unfair practices in education or employment to the Office of Fair Practices for investigation (AD 303, 410-830-2361). After a student or employee has filed a formal complaint, full information from the complainant, from university records, and from university personnel involved in the incident will be gathered and a determination as to the merits of the complaint will be made.

The investigation will normally be completed within 30 days. If a key person is unavailable or if the complaint is complex, involves a grade dispute or other faculty matter, the investigation may take longer. Every effort will be made to complete the investigation within the semester in which it is filed, unless the complaint is filed within the last two weeks of a semester, in which case every effort will be made to complete the investigation by the beginning of the following semester.

Students are encouraged to bring incidents that they think are discriminatory to the attention of university officials. The university cannot take appropriate action unless it is aware that a problem exists.

SEXUAL OR GENDER HARASSMENT

Sexual harassment constitutes a serious threat to the free interaction and exchange necessary for educational and personal development, and it is entirely unacceptable on this campus. Definition: Sexual or gender harassment may range from offensive gender or sexual innuendos to coerced sexual relations. It can happen to both men and women, but women are more often victims.

Harassment occurs when a person in a position of control or influence uses authority and power to gain sexual advances and threats or punishes for refusal to comply. It includes suggestive remarks about clothing or physical attributes; leering or ogling; unnecessary touching; subtle or direct requests for sexual favors; implied or overt threats of consequence; or a hostile sexual environment. Students and employees may bring concerns about sexual harassment to the Office of Fair Practices for investigation.

AIDS POLICY

In accordance with the university's Non-Discrimination Policy, no student, faculty, or staff member shall be denied access to the academic, social, or employment opportunities offered by Towson University solely because he/she has AIDS or is an HIV carrier. A university committee (appointed by the president) will be appointed to evaluate individual cases of HIV infection and to make recommendations as questions of risk or cases of specific emergencies require. Educational programs will be implemented for the campus and the campus community to assist in preventing further spread of the virus.

POLICY ON SUBSTANCE ABUSE FOR FACULTY, STAFF, AND STUDENTS

University System of Maryland POLICY

The University System of Maryland, as an employer, strives to maintain a workplace free from the illegal use, possession, or distribution, possession or use of controlled substances (as defined pursuant to Controlled Substances Act, 21 U.S.C. Sections 801, et. seq.). Unlawful manufacture, distribution, dispensation, possession or use of controlled substances by university employees in the workplace is prohibited under university policy. In addition to any legal penalties under federal and state law, employees found to be in violation of this policy or the Maryland Governor's Executive Order on Substance Abuse, 01.01.1991.16, may be subject to corrective action under applicable university personnel policies. The university supports programs aimed at the prevention of substance abuse by university employees. Employees are encouraged to seek assistance for substance-dependency problems. Employee-assistance counseling and leaves of absence to attend rehabilitation programs are appropriate means of dealing with these problems.

Towson University POLICY

The use of controlled substances and the abuse of alcohol presents a serious threat to individual health and everyone's safety. Moreover, the use of illegal drugs and the abuse of alcohol can result in less than complete reliability, stability, and good judgment which is inconsistent with the standards set for the faculty, staff, and students of this university. Towson University, as an employer, strives to maintain a workplace free from illegal use, distribution, or possession of controlled substances. Any person found to be participating in such activity will be subject to administrative disciplinary action, mandatory counseling and treatment and/or criminal proceedings.

The use, possession, and/or sale of illegal drugs, are considered violations of Towson University's Code of Student Conduct, the

faculty contract, and the terms of employment of regular, contingent (exempt/non-exempt) staff. Faculty, students, and employees who use, possess, or sell illegal drugs shall be subject to discipline, including mandatory counseling, suspension, or dismissal from the university. The university will take disciplinary action based on reasonable available information; such action will be independent of any civil or criminal processes precipitated by the same incident and will follow the policies and procedures of the university and the University System of Maryland Board of Regents. In the workplace, use, possession, and/or sale of illegal drugs and controlled substances are also violations of state and federal laws for which individuals are subject to university disciplinary processes and/or arrest and criminal prosecution.

These serious workplace situations must be handled in ways which ensure the protection of the civil rights and handicapped rights of the accused, the treatment and rehabilitation of employees, and the notification of the necessary administrative and legal authorities.

Specific procedures for reporting drug use, penalties and appeals are part of the Towson University Code of Conduct. Employee disciplinary measures and appeals for violations of this policy as well as other policies of the university are part of the Faculty Handbook, the Part-Time Faculty Handbook, and the Personnel Manual.

In addition to the university policy on substance abuse, all employees of the university including student employees are subject to the Maryland Governor's Executive Order 01.01.1991.16 on the Drug and Alcohol Free Workplace.

In accordance with federal legislation, Towson University's substance abuse policy will be distributed annually to all students and employees through the campus or U.S. mail.

Education

In accordance with federal legislation, there will be an annual distribution in writing, to each employee and student of:

1. the dangers of drug abuse in the workplace (to include student employees);
2. the institution's policy of maintaining a drug-free workplace and drug-free campus;
3. standards of conduct that clearly prohibit, at a minimum, the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees on university property or as part of any university activities;
4. a description of applicable legal sanctions under local, state, or federal law;
5. a description of health risks associated with the use of illicit drugs and abuse of alcohol;
6. a description of available drug or alcohol counseling, treatment, or rehabilitation and/or reentry programs;
7. a clear statement of the disciplinary sanctions that the university will impose on students and employees.

All supervisory faculty and staff will receive training on drug awareness and treatment. This training program shall include existing as well as new supervisory personnel. Drug awareness training will be an integral part of the university's student orientation program.

Faculty and staff orientations will include programming especially designed to focus on the university's policy toward substance abuse.

Employee/Student Assistance Programs

Towson University's health and drug education programs will inform the entire university community of the physical and psychological effects of the non-medically supervised use of illegal drugs, alcohol and consciousness expanding drugs. The education program shall make employees aware of the consequences of prosecution under local, state and federal laws and the rules for governance for university imposed discipline.

The university recognizes the importance of individual rights and respects the privacy of employees and students. To this end,

the university has an established counseling program for students and an Employee Assistance Program (EAP) for faculty and staff. These programs have been designed to provide counseling and rehabilitative services. Employees and students are encouraged to contact the appropriate program in the event they have a substance abuse problem. In this way a student or employee can correct the problem before it jeopardizes a job, an education, family, or individual well being.

Employees or students who need help with a problem of drug abuse shall be encouraged to call the Counseling Center, the Health Center, Human Resources or the Office of the vice president for Student Life. The resources of the Counseling Center shall be available for supervisors who wish consultation in handling employees who may have substance abuse problems. The call will be treated with confidentiality and respect. In addition, the university shall provide information about drugs on Copeline (410-830-COPE). Copeline telephone tapes will provide free and anonymous information on drugs as well as listing of the Baltimore County Resources for Drug Abuse.

Voluntary participants in an assistance program will not jeopardize their continued employment or enrollment at the university provided that their job performance or behavior is consistent with established standards. However, voluntary participation in an assistance program will not prevent disciplinary action for violation of the policy described herein, where such violation has already occurred.

Procedures for Grievances and Appeal

Towson University strongly encourages the use of drug rehabilitation programs as the keystone to a drug-free environment. For each class of employee and student category, the formal rules of procedure remain intact. These include the student judicial procedures and criminal justice procedures. Following a conviction for violation of a drug offense in the workplace, disciplinary action can be imposed, up to and including termination or disenrollment. As a condition of continued employment or education, an employee or student may be required to participate in an approved drug abuse rehabilitation program.

Suspected Drug Use, Possession, or Sale

The use, possession or sale of illegal drugs are violations of state and federal laws for which all offenders are subject to arrest and criminal prosecution, as well as university administrative processes. These serious offenses must be handled in ways to ensure the guarding of evidence, the protection of civil rights of the accused, and notification of the proper authorities. To this end, specific procedures outlined in this policy are to be followed in any campus situation where substances are suspected to be illegal drugs.

Any individual, student or employee, directly associated with the University System of Maryland who uses or becomes involved with illegal drugs without proper medical supervision, shall be subject to discipline, including suspension or dismissal, as appropriate.

Students, faculty and staff, in their routine activities, may observe suspected illegal drug activities. As a result, some staff members may become involved in the determination of disciplinary action that follows suspected use, possession or distribution of an illegal substance. Specific actions or responsibilities in regard to the suspicion of illegal substances have been outlined in other paragraphs of this policy.

The university reserves the right to conduct drug testing consistent with applicable federal and state laws.

Alcohol Use and Abuse

Towson University views with alarm the potential and real problems caused by alcohol abuse and alcoholism. The alcohol policy has been directed to students and employees engaged in the legal use of alcohol. The implicit as well as explicit focus for prudent drinking is with moderation rather than intoxication.

Any person using alcoholic beverages at any time and at any place while on the Towson University campus is responsible to

civil and university authorities for compliance with state and county law.

It is against Maryland State law for anyone under the age of 21 to purchase, possess or consume alcoholic beverages.

It is unlawful for any minor to knowingly and willfully make any misrepresentation or false statement as to his/her age in order to obtain alcoholic beverages.

It is unlawful for any person to purchase alcoholic beverages for consumption by an individual who is known to be a minor.

It is unlawful for any person to possess open containers of any alcoholic beverages in a public place.

Policies concerning the possession and/or use of alcoholic beverages on campus and at special university/community events shall be the delegated responsibility of the vice president for Student Life.

Procedures for Reporting Substance Abuse

The following information shall provide the basic guidelines for the reporting of student or employee drug use, possession, sale or distribution. Other procedures to be followed have been specified in other sections of this policy.

Upon observing or receiving a report of suspected use, possession, or distribution of an illegal drug or the illegal use of alcohol, faculty and staff, and/ or students shall proceed in the following manner:

Step One: Report suspicions of illegal drug/or alcohol use or possession to the administrator of your area or the appropriate vice president. Any faculty or staff member who observes the workplace use or possession of illegal drugs or alcohol must take appropriate action.

Students observing drug activity in the residence halls should notify a housing staff member. These administrators will notify the appropriate authorities and take appropriate action.

Step Two: Use judicious thought and sound judgment when approaching individuals suspected of illegal drug or alcohol use, possession or distribution. It is preferable to leave drugs or alcohol in their original location until the authorities take action.

Step Three: The university administration will determine if state or federal laws may have been violated. University employees should not become involved in mediating any situation involving illegal drug or alcohol use.

Penalties for Substance Abuse

Penalties for Faculty and Staff

Towson University strongly encourages the use of drug rehabilitation programs as an effective measure in creating a drug-free workplace program. However, additional penalties may be implemented up to and including reprimand, suspension, mandatory counseling, mandatory participation in a drug rehabilitation program and/or dismissal. Appropriate university grievance procedures shall be used for each classification of employee.

Any individual who has been convicted of a controlled dangerous substance offense on or after January 1, 1991 shall be required to disclose that fact when applying for a license renewal. The licensing authority may refuse to issue the license or impose appropriate conditions on the license, except for noncommercial driver's licenses (Maryland Drug Enforcement Act of 1990).

Maryland law [Art. 27, 8, 286, and 287 Annotated Code of Maryland (1990)] states that persons who manufacture, distribute, dispense, or possess a controlled dangerous substance may be subject to imprisonment (length of time varies) and fines (\$15,000 and up).

Penalties for Students

In addition to the laws of the University System of Maryland, the State of Maryland and the nation, Towson University students shall be governed by rules referred to as the "Towson University Code of Conduct." Within these campus guidelines, students shall be subject to institutional discipline if they use, possess, distribute, or sell illegal drugs and illegally use or abuse alcohol. There may be various penalties applied to the student convicted of misuse of drugs and alcohol, depending on the situation. Individuals

are encouraged to use voluntary rehabilitation programs and may be required to receive mandatory counseling and treatment. If a student is suspected by the university police to have violated state and/or federal laws with regard to illegal drugs or use of alcohol, the student will be subject to arrest and criminal prosecution.

All students suspected of substance abuse violations may be referred to the director of Judicial Affairs. The student will be subject to a due process hearing in accordance with institutional disciplinary guidelines. Disciplinary action at the university will normally proceed whether or not criminal charges related to the same incident have been processed and sustained. The university encourages voluntary counseling and may require participation in an approved treatment program.

Where there is evidence that the continued presence of a student on the university campus poses a substantial threat to self, others, or to the stability and continuance of normal university functions, the vice president for Student Life, or a designee, may immediately suspend, on an emergency basis, a student from any or all university activities (including university housing programs and class attendance) pending a hearing or medical evaluation. A hearing will be scheduled in a timely fashion to adjudicate the case as swiftly as possible. During the period of emergency suspension, if the student needs access to the campus, arrangements can be made for the student to come to campus, on a limited basis, to attend counseling sessions and/or conduct business, usually with an escort. Such an interim suspension can become effective immediately without prior notice.

The following penalties described herein are in addition to those penalties listed in the section on general procedures and penalties for suspected drug use, possession, or sale. The specific penalty prescribed will usually depend on the nature of the alleged violation. Penalties may be administered following a judicial hearing where the suspected offender has been found to be guilty of specific charges. Possible penalties for student violations may include, but are not limited to, the following:

PENALTY ONE: The student user may be subject to referral to a mandatory drug treatment/education program, and/or the termination of the university housing contract, denial of access to university housing halls and social functions. If suspended, permission to return to school will be considered after the period of suspension and a verified report of attendance in a drug treatment/education program. Repeat offenders may be subject to more severe actions.

PENALTY TWO: The student distributor may be subject to referral to a mandatory drug treatment/education program and/or suspension from school for at least one year. Permission to return to school will be considered after the period of suspension and a verified report of attendance in a drug treatment/education program. Repeat offenders may be subject to more severe actions.

PENALTY THREE: The student conspirator, who brings together the seller and the buyer, may be subject to referral to a mandatory drug treatment/education program and/or suspension for at least one semester. Permission to return to school after the period of suspension will be considered with verified attendance in a drug treatment/education program.

PENALTY FOUR: Greek Organizations, who have been found to tolerate drug use, possession, and/or sale on the part of their members will be subject to a drug education program for the group.

Maryland law [Art. 27, 8, 286, and 287 Annotated Code of Maryland (1990)] states that persons who manufacture, distribute, dispense, or possess a controlled dangerous substance may be subject to imprisonment (length of time varies) and fines (\$15,000 and up).

Recipients of Federal Grant/Contracts/Awards

Any faculty, staff member or student applying 1) for a federal grant/contract in which an in the workplace drug-free policy has been required, 2) for a "Pell Grant" or any other student/faculty

grant/award or fellowship in which an in-the-workplace drug-free policy has been required, and 3) for a subcontract with the Department of Defense, will be required to comply in accordance with federal regulations.

1. Each individual must certify in writing to abide by the terms of the Towson University Drug-Free Workplace Policy.

2. Each individual must notify the Office of Sponsored Projects and Research Administration or the Office of Financial Aid of any criminal drug conviction occurring in the workplace, no later than 5 days after conviction.

The university will be responsible for notifying any contracting or granting agency, within 10 days of employee notification otherwise receiving actual notice, of a conviction in (2) above.

If a grant or award is directly made to an individual, rather than the institution, the individual will certify in writing to the institution to not engage in unlawful manufacture, distribution, dispensation, possession, or use of any controlled substance in the workplace or while conducting any work activity with the grant/contract and will abide by the terms of this Towson University Substance Abuse Policy.

Relationship with External Contractors

The university is committed to encourage all non-state entities, who do business with the university or otherwise receive funds from the university, to make a "good faith" effort to eliminate illegal drug abuse from their workplace. Therefore, in accordance with Executive Order 01.01.1991.16, the university shall take whatever action necessary and appropriate to require a drug-free workplace, in accordance with applicable federal and state law, on each recipient of a state contract, grant, loan or other state funding instrument.

Biennial Review

The Towson University Substance Abuse Policy and Program will be reviewed every two years (a) to determine effectiveness and the need to implement change as necessary, and (b) to assure that sanctions developed and implemented were consistently enforced.

Responsibility

The president of Towson University will appoint a campus coordinator for all substance and alcohol abuse programs. This administrator will be responsible to the president for the implementation of this policy and the university's Drug Free Workplace and Drug Free Campus plans. The president shall also hold responsible all faculty, staff, and students for supporting the campus coordinator, especially those who occupy positions of leadership and supervision.

"Good Faith" Efforts

Towson University will at all times make a "good faith" effort to maintain a drug-free and substance abuse free workplace and campus through the implementation of this policy.

Course Descriptions

THE MEANING OF COURSE NUMBERS

Academic departments use specific abbreviations for each general subject area (for example, French in the Department of Modern Languages). These three- or four-letter abbreviations (discipline codes) are listed below. In the course listings below, the discipline codes are followed by a three-digit code, which signifies course level:

Course Numbers	Significance of Numbers
100-299	Lower-Level Undergraduate Courses
300-499	Upper-Level Undergraduate Courses
	Certain courses may be taken for undergraduate or graduate credit. These courses' graduate-level equivalents are shown in brackets.
500-899	Graduate-Level Courses

ALPHA AND NUMERIC DISCIPLINE CODES

Accounting	ACCT
Adult Education	ADED
American Studies	AMST
Anthropology	ANTH
Art	ART
Art Education	ARED
Art History	ARTH
Astronomy	ASTR
Biology	BIOL
Chemistry	CHEM
Chinese	CHNS
College of Business and Economics	CBEC
Communication Sciences and Disorders	SPPA
Communication Studies	COMM
Computer Information Systems	CIS
Computer Science	COSC
Cultural Studies	CLST
Dance	DANC
Deaf Studies	DFST
Developmental Mathematics	DVMT
Developmental Reading	DVRD
Developmental Writing	DVWR
E-Commerce	ECOM
Early Childhood Education	ECED
Economics	ECON
Education	EDUC
Electronic Media and Film	EMF
Elementary Education	ELED
English	ENGL
English for Speakers of Other Languages	ESOL
Environmental Science/Studies	ENVS
Family Studies	FMST
Finance	FIN
French	FREN
General Studies	GENL
Geography and Environmental Planning	GEOG
Geology	GEOL
German	GERM
Gerontology	GERO
Greek	GRK
Health Care Management	HCMN
Health Science	HLTH
Hebrew	HEBR
Hindi	GENL
History	HIST
Honors College	HONR
Interdisciplinary Studies	INLA/IDFA/IDHS/IDHP/IDIS/IDNM
International Studies	INST
Instructional Technology	ISTC
Italian	ITAL
Japanese	JPNS
Kinesiology	KNES
Latin	LATN
Latin American Studies	LAST

Law and American Civilization	LWAC
Legal Studies	LEGL
Management	MNGT
Marketing	MKTG
Mass Communication	MCOM
Mathematics	MATH
Music Applied	MUSA
Music	MUSC
Music Education	MUED
Nursing	NURS
Occupational Therapy	OCTH
Philosophy	PHIL
Physical Education	PHEA
Physical Science	PHSC
Physics	PHYS
Political Science	POSC
Portuguese	PORT
Psychology	PSYC
Russian	RUSS
Secondary Education	SCED
Science Education	SCIE
Sociology	SOCI
Spanish	SPAN
Special Education	SPED
Theatre Arts	THEA
Women's Studies	WMST
Writing	WRIT

Sequential Courses

Courses whose numbers are separated by a hyphen are to be taken in sequence. When course numbers are separated by a comma, either semester may be taken independently of the other. (See Prerequisites.)

Prerequisites

Prerequisites are requirements imposed by an academic department for certain courses within its curriculum. Such requirements may include, but are not limited to, other courses, a specific quality point average, or class standing (e.g., junior, senior). Prerequisites may also include successful completion of screened requirements, where applicable, or successful completion of a specific test or examination, either departmental or standardized, where applicable. Prerequisites may also include department or instructor permission in addition to, or in lieu of, specific course, testing, or class standing requirements.

Departments are responsible for enforcing prerequisites. Students are advised to read carefully course descriptions found in this catalog, and to make sure they have met any prerequisites before registering for courses. Students who remain in courses without having met prerequisites, with or without the permission of the instructor, do so at their own risk. Failure to meet prerequisites and withdraw from a course by the published deadline is not a basis for petitioning the Academic Standards Committee for an exception to academic policy.

Elective Courses

Courses that are not required toward the GenEds or a major program of study are electives. Students may complete elective courses to attain the 120 credits needed to graduate. However, before attempting electives, students should consult their advisers and, for more information, the course instructors and department chairpersons.

Credit Value of Courses

The semester credit value of each course is indicated in the parentheses following the title.

Time of Offering

All required courses are usually offered at least once a year. Elective courses in each department are offered on a regular rotation so that each is available at least once every three years. All courses are offered subject to sufficient enrollment.

ACCOUNTING (ACCT)**Lower Division**

ACCT 201 ACCOUNTING PRINCIPLES I (3) Accounting in the decision-making process of a business, including the effects of accounting events on business financial statements; planning and decision-making tools in the operating cycle; process of recording and communicating information.

ACCT 202 ACCOUNTING PRINCIPLES II (3) Accounting in the decision-making process of a business, including analysis of the operating cycle and cash management and controls; evaluating business performance through financial statement analysis; spreadsheet applications and team learning activities. Prerequisite: ACCT 201 with a grade equivalent of 2.00 or higher.

ACCT 211 HONORS ACCOUNTING PRINCIPLES I (3) This course is similar to ACCT 201 except that it emphasizes more conceptual approaches to accounting and requires completion of a research paper, case studies and practice sets. It also requires a considerable amount of computer-based instruction. Prerequisites: SAT scores 550 or above, Verbal; 600 or above, Math.

ACCT 212 HONORS ACCOUNTING PRINCIPLES II (3) This course is similar to ACCT 202 except that it emphasizes more conceptual approaches to accounting and requires completion of a research paper, case studies and practice sets. It also requires a considerable amount of computer-based instruction. Prerequisites: SAT scores 550 or above, Verbal; 600 or above, Math, and ACCT 211 with a grade equivalent of 2.00 or higher.

Upper Division

ACCT 301 INTERMEDIATE ACCOUNTING I (3) GAAP accounting theory; analysis of financial statements; revenue recognition methods; accounting for changes and errors and for changes in prices; financial statement analysis. Prerequisite: ACCT 202 with a grade equivalent of 2.00 or higher.

ACCT 302 INTERMEDIATE ACCOUNTING II (3) Analysis of assets (cash, receivables, inventories, fixed assets and intangibles) and liabilities. Concepts of present value analysis. Prerequisites: ACCT 301 with a grade equivalent of 2.00 or higher and passing score on the APAT.

ACCT 303 INTERMEDIATE ACCOUNTING III (3) Analysis of equity. Reporting of earnings per share. Accounting for investments, leases, post-employment benefits and income taxes. Prerequisite: ACCT 302 with a grade equivalent of 2.00 or higher.

ACCT 321 ADVANCED ACCOUNTING I (3) Partnership accounting, multinational accounting, accounting for non-business organizations, and business combinations and consolidations. Prerequisite: ACCT 303 with a grade equivalent of 2.00 or higher.

ACCT 322 ADVANCED ACCOUNTING II (3) Interpretation and application of financial accounting principles. Prerequisite: ACCT 321 with a grade equivalent of 2.00 or higher or consent of instructor.

ACCT 341 COST ACCOUNTING I (3) Components of manufacturing cost under the job order and processing cost system will be discussed. Elements of standard cost accounting, variance analysis and direct cost will be presented. Prerequisite: ACCT 202 with a grade equivalent of 2.00 or higher.

ACCT 342 COST ACCOUNTING II (3) Preparation of budgets and budgetary controls, standard costs and their application. Also covers management uses of accounting information through case analyses. Prerequisite: ACCT 341 with a grade equivalent of 2.00 or higher.

ACCT 361 TAX ACCOUNTING I (3) Covers federal income tax laws governing gross income, deductions, calculation of taxable income tax rates. Emphasis is placed on the effect of these laws on the income of individual taxpayers. Prerequisite: ACCT 202 with a grade equivalent of 2.00 or higher.

ACCT 362 TAX ACCOUNTING II (3) This course covers federal income tax laws dealing with partnerships, corporations, special tax areas and state of Maryland income tax laws. Prerequisite: ACCT 361 with a grade equivalent of 2.00 or higher.

ACCT 401 AUDITING (3) Standards, controls, ethics and procedures employed by financial auditors. Prerequisites: ACCT 303, COMM 131, and upper-level writing requirements with a grade equivalent of 2.00 or higher; senior status.

ACCT 402 AUDITING II (3) Auditing procedures, working in small groups and developing oral and written communications skills for public accounting. Prerequisite: ACCT 401 with a grade equivalent of 2.00 or higher.

ACCT 410 ACCOUNTING CONTROL SYSTEMS (3) Analysis, design and implementation of accounting systems and their role in gathering and disseminating financial information. Emphasis will be placed on the use and integration of computers into the accounting system. Prerequisites: ACCT 303 and ACCT 341 with a grade equivalent of 2.00 or higher. MAJORS ONLY.

ACCT 470 - 479 SPECIAL TOPICS IN ACCOUNTING (3) Course content varies with each topic. In-depth study of contemporary business issues as they affect current accounting practice. May be repeated for credit provided a different topic is covered. Prerequisite: consent of instructor.

ACCT 495 INDEPENDENT RESEARCH IN ACCOUNTING (3) Directed research on specific problems in a functional area of accounting. May be repeated for a maximum total of 6 credits. Prerequisite: consent of instructor.

ACCT 497 ACCOUNTING INTERNSHIP (3) Students are required to work in assigned projects in actual accounting environments. Priority will be given to seniors. Open to highly qualified juniors. Graded S/U. May be repeated for a maximum of 6 credits. Prerequisites: consent of department chairperson; junior status.

ADULT EDUCATION (ADED)**Upper Division**

ADED 485[585] ADULT EDUCATION (3) Introduction to the historical and philosophical evolution of adult education in the United States in relationship to current aims, types of programs, and issues. Prerequisite: consent of instructor.

ADED 487[587] TEACHING THE ADULT LEARNER (3) Teaching learning activities at various levels of adult education. The needs, motivation, and abilities of the adult learner are stressed. Prerequisite: consent of instructor.

ADED 489 PRINCIPLES OF READING INSTRUCTION FOR ADULTS (3) Causes of adult reading disabilities, evaluation relevant to reading disability, and the methods and materials employed in the remediation process. Prerequisite: consent of instructor.

AMERICAN STUDIES (AMST)**Lower Division**

AMST 201 INTRODUCTION TO AMERICAN STUDIES (3) Interdisciplinary course interpreting American culture through historical documents, literature, film, music, art and popular expression. Topic varies. GenEd II.B.1.

Upper Division

AMST 491 DIRECTED READINGS IN AMERICAN STUDIES (3) Independent research in American Studies on a topic selected by the student in consultation with the instructor. Prerequisite: consent of American Studies coordinator.

AMST 497 PRACTICUM IN MATERIAL CULTURE (3) Students will work with members of the curatorial staff at a local museum to learn various museum techniques, examine the collections, and understand the educational and scholarly uses of material culture. A daily log and 90 hours of participation are required. Prerequisite: consent of American Studies coordinator.

ANTHROPOLOGY (ANTH)**Lower Division**

ANTH 207 CULTURAL ANTHROPOLOGY (3) Introduction to social and cultural anthropology; cultural theory, social structure, human ecology, language and culture, technology, religion, art, and literature. GenEd II.D.

ANTH 208 HUMAN EVOLUTION AND PREHISTORY (3) The study of humans: their biological and cultural development through time. GenEd II.D.

ANTH 209 ANTHROPOLOGY OF AMERICAN CULTURE (3) Applies the anthropological perspective and methodology to the study of the institutions of American culture and the distinctive ways of life encompassed by it. Students will use the perspective in a field work situation of their choice. GenEd II.B.2.

ANTH 210 HONORS CULTURAL ANTHROPOLOGY (3) Introduction to social and cultural anthropology. Major social institutions, such as politics, economics, religion and social structure will be viewed cross-culturally. Honors College course. Special permit only. GenEd II.D.

ANTH 211 HONORS ANTHROPOLOGY OF AMERICAN CULTURE (3) Applies the anthropological perspective and methodology to the study of the institutions of American culture and the distinctive ways of life encompassed by it. Students will use the perspective in a field work situation of their choice. Honors College course. Special permit only. GenEd II.B.2.

Upper Division

ANTH 311 ARCHAEOLOGY OF MARYLAND (3) Prehistory of Maryland from initial settlement until the European contact. Prerequisite: ANTH 208.

ANTH 321 [521] GENDER IN CROSS-CULTURAL PERSPECTIVE (3) Materials from a variety of cultures will be used to illustrate and analyze the roles of women and men within the major institutional aspects — the family, economics, politics and religion. Particular attention will be devoted to the similarities and differences in sex role patterns within and among the cultures. Prerequisite: SOCI 101 or ANTH 207.

ANTH 331 ESKIMO ETHNOLOGY (3) Survey of the social and cultural worlds of the Inuit (Eskimo). Prerequisite: ANTH 207.

ANTH 346 [546] WEALTH, POWER & POLITICS IN CROSS-CULTURAL PERSPECTIVE (3) Political systems and the distribution of power in egalitarian, ranked, and stratified societies will be examined. Prerequisite: SOCI 101 or ANTH 207.

ANTH 351 DRUGS IN THE AMERICAS (3) Examines drug production and organization of supply in Latin America and the impact of the illegal economy on the peasant producers and the fabric of the economy, polity and society of those Latin American countries most directly involved. Most attention will be paid to cocaine, although heroin and marijuana will be discussed for comparative purposes. The course will not deal with drug consumption in the United States except incidentally. In the light of Latin American reality, the policy choices of the "War on Drugs" will be evaluated. Prerequisite: SOCI 101 or ANTH 207.

ANTH 353 LATINAS IN THE AMERICAS (3) Anthropological perspective stressing "emic" or insider view, structural constraints of class, gender and race; women's agency is used to understand the diverse experiences of Latin American women with colonization, independence, revolution, development and structural readjustment. Prerequisite: ANTH 207, ANTH 208, or WMST 231 or consent of instructor.

ANTH 361 CONTROVERSIES IN ANTHROPOLOGY (3) Focuses on a number of significant controversial issues in cultural anthropology. Students will read divergent assessments on each issue under study. In addition, films will be shown which further illuminate the topics. The topics covered will cover a diverse range of areas, including sociobiology, cannibalism, incest, family organization, sexuality, warfare, competitive feasting, and spirit possession. Prerequisite: ANTH 207.

ANTH 364 [564] RELIGION, MAGIC AND WITCHCRAFT (3) The world view, beliefs and rituals of selected non-literate peoples considered with reference to religion as a universal category of human culture. Prerequisite: ANTH 207.

ANTH 365 [565] NORTH AMERICAN INDIANS (3) The traditional culture of native North Americans and their socio-cultural place in modern American society. Prerequisite: ANTH 207.

ANTH 366 [566] SOUTH AMERICAN INDIANS (3) Survey of the cultures of the native peoples of South America in Pre-Columbian times and the situation of contemporary tribal peoples of South America. Prerequisite: ANTH 207.

ANTH 367 [567] PEOPLES OF THE MIDDLE EAST (3) Survey of the Middle East as a cultural area with emphasis on culture change. Prerequisite: ANTH 207.

ANTH 368 [568] DEVELOPMENT AND INDUSTRIALIZATION OF CROSS-CULTURAL PERSPECTIVE (3) The development and industrialization experiences of selected contemporary populations in Asia, Africa, and Latin America in comparison with those of developed countries. Prerequisites: ANTH 207 or SOCI 101.

ANTH 369 [569] TRADITION AND REVOLUTION IN LATIN AMERICAN SOCIETY (3) An anthropological perspective will be brought to bear on contemporary Latin American culture and society. The Pre-Columbian heritage, the traditional synthesis and the struggle to modernize and develop will be examined. Prerequisite: SOCI 101, ANTH 207, or ANTH 208.

ANTH 370-379 [530-539] TOPICS IN ANTHROPOLOGY (3) An examination of current topics in anthropology designed for non-

majors as well as majors. May be repeated for a maximum of 6 credits. Prerequisite: ANTH 207.

ANTH 381 [581] ARCHAEOLOGICAL METHODS AND THEORY (3) Methods of excavating and recording archaeological data. Investigation of problems of current research interest. Prerequisite: ANTH 207.

ANTH 383 [583] NORTH AMERICAN ARCHAEOLOGY (3) Regional survey of the prehistory of native North American cultures. Prerequisite: ANTH 207 or ANTH 208.

ANTH 387 [587] NATIVE AMERICAN ARCHAEOASTRONOMY (3) Examination of prehistoric roots of astronomy in the New World with an emphasis on the American Southwest. Celestial motions and the development of a calendar, related folklore, and case studies concerning solstice and equinox observations. Prerequisite: ANTH 207 or 208.

ANTH 388 [588] PEASANT CULTURES (3) Focuses on rural agricultural population of modern states, their traditional lifeways and the changes being wrought by modernization. Prerequisite: SOCI 101 or ANTH 207.

ANTH 391 ARCHAEOLOGICAL LAB METHODS (3) Artifact analyses from prehistoric site excavations; archaeological data analysis techniques. Prerequisite: ANTH 208.

ANTH 393 ARCHAEOLOGICAL FIELD SCHOOL (3) Field work conducted in a late prehistoric archaeological site in the Maryland area. May be repeated for a maximum of 6 credits. Prerequisite: ANTH 208.

ANTH 401 [501] ANTHROPOLOGICAL THEORY (3) Survey of the theoretical contributions made by American, British and Continental anthropologists. This course also satisfies the university's second writing course requirement. Prerequisites: ENGL 102, ANTH 207, and 9 hours of anthropology. GenEd I.D.

ANTH 470-479 [570-579] SPECIAL TOPICS IN ANTHROPOLOGY (1-3) An examination of current topics in anthropology designed for junior and senior majors. May be repeated for a maximum of 6 credits. Prerequisites: ANTH 207 and 6 additional hours of anthropology.

ANTH 491-492 [591-592] INTERNSHIP IN ANTHROPOLOGY I, II (3, 3) Supervised experience in work setting which facilitates understanding of rules and relationships relevant to anthropological inquiry and application of anthropological knowledge. Although opportunities to do anthropologically oriented fieldwork in the community will usually be available, placement in agencies dedicated to anthropological inquiry may not always be possible. Students may elect to take one semester for 3 credits (491) or two semesters for 3 credits each (491-492), in one agency for both semesters or in a different agency each semester. No more than 3 credits may be earned in a semester without consent of the chair, which will be granted only when agency requirements and student needs make it appropriate. A fee is charged for each semester a student is involved in the internship. Prerequisites: concentration in anthropology; junior standing and consent of internship coordinator.

ANTH 495 [595] INDEPENDENT RESEARCH (3) Supervised research and anthropological investigation leading to preparation of a research project or a supervised field experience. For senior students with a concentration in anthropology. May be repeated for a maximum of 6 credits. Prerequisites: at least 12 credits in ANTH and consent of department chair.

ANTH 498 READINGS IN ANTHROPOLOGY (Honors) (4) A survey of the relevant scholarly literature under the guidance of a staff member who will direct the student's research. Prerequisite: consent of the honors coordinator.

ANTH 499 HONORS THESIS (4) Supervised research and anthropological investigation involving library and/or field experiences and culminating in a written report. Prerequisite: consent of the honors coordinator.

ART

Lower Division

ART 100 USING VISUAL INFORMATION EFFECTIVELY (3) Accessing, analyzing and organizing visual information, including Internet research and Web page design. GenEd I.B.

ART 102 DESIGN FOR NON-ART MAJORS (3) Creative process through two-dimensional art theory and concepts. Studio application, lectures, research problems. GenEd I.E.

- ART 103 DESIGN I (3)** Elements and principles of two-dimensional design: compositional problems involving various materials, tools and techniques.
- ART 104 DESIGN II (3)** Elements and principles of three-dimensional design: form and space problems involving various tools, materials and techniques.
- ART 106 DRAWING FOR NON-ART MAJORS (3)** Creative process through drawing. Studio application, lectures, demonstrations and research problems. GenEd I.E.
- ART 107 CERAMICS FOR NON-ART MAJORS (3)** Creative process through studio application of ceramics. Lectures, demonstrations and research problems. GenEd I.E.
- ART 109 SCULPTURE FOR NON-ART MAJORS (3)** Creative process through sculpture. Studio application, lectures, demonstrations and research problems. GenEd I.E.
- ART 111 DRAWING AND THE APPRECIATION OF DRAWING I (3)** Problems of expressive draftsmanship in a variety of media. Drawing from the costumed and nude figures, still life and landscape.
- ART 113 PAINTING FOR NON-ART MAJORS (3)** Creative process through painting. Studio application, lectures, demonstrations and research problems. GenEd I.E.
- ART 115 AMERICAN TRADITIONS IN PAINTING (3)** Diverse trends in American painting. Lecture, demonstration, studio experiences, museum visits, guest speakers. GenEd II.B.1.
- ART 117 PRINTMAKING FOR NON-ART MAJORS (3)** Creative process through printmaking. GenEd I.E.
- ART 118 JEWELRY FOR NON-ART MAJORS (3)** Creative process through jewelry production. GenEd I.E.
- ART 126 FABRIC DESIGN FOR NON-ART MAJORS (3)** Study of design elements and principles using various textile techniques, such as embroidery, applique, quilting, and dyeing. GenEd I.E.
- ART 205 THE HUMAN FIGURE (3)** Exploration of the human figure using two- and three-dimensional techniques: emphasis on the representational image. Prerequisite: ART 111.
- ART 211 DRAWING II (3)** Continued studio work in drawing: landscape, still life and figure. Prerequisite: ART 111.
- ART 217 INTRODUCTION TO COMPUTER MEDIA (3)** Hardware and software for image generation, image processing and design. Prerequisite: ART 103.
- ART 229 PAINTING I (3)** Fundamentals of painting through lecture, demonstration and studio experience. Emphasis on color theory and applications: still life and landscape. Prerequisites: ART 103, ART 111.
- ART 231 CERAMICS I (3)** Creative investigation of ceramic materials. Studio work, lectures and discussion on ceramic design, techniques and materials. Prerequisites: ART 103, ART 104, or consent of instructor.
- ART 234 PHOTOGRAPHY I (3)** Technical and aesthetic elements of the photographic process. A manually adjustable camera is required. Prerequisite: ART 103.
- ART 236 PAINTING II (3)** Continued studio experience utilizing a variety of techniques and media: still life, landscape, and the figure. Prerequisite: ART 229.
- ART 241 SCULPTURE I (3)** Lecture and studio problems in the aesthetic and technical considerations of contemporary sculpture.
- ART 245 INTRODUCTION TO PRINTMAKING (3)** Basic intaglio and relief processes: collograph, dry point, linocut, and monoprinting, with an overview of other printmaking media. Prerequisites: ART 103 and ART 111.
- Upper Division**
- ART 301 STAINED GLASS (3)** Directed studio problems in stained glass: cutting, foiling, soldering, brass frame, and patina. Prerequisite: ART 102 or ART 103 or consent of instructor.
- ART 309 CERAMICS: THE POTTER'S WHEEL (3)** Studio experience in wheel throwing with emphasis on utilitarian art forms. Lectures, discussion and demonstrations. Prerequisite: ART 231.
- ART 310 CERAMICS: HANDBUILDING (3)** Studio experience utilizing a variety of handbuilding techniques: problems in both utilitarian and sculptural considerations.
- ART 311 WOOD: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in the fabrication and lamination of wood. Prerequisite: ART 241.
- ART 313 ENAMELING I (3)** Directed studio problems in applying and firing vitreous enamels on metal. Basic techniques of stencil and inlay work are emphasized. Cloisonne, pique-a-jour, champeve will be introduced. Prerequisites: ART 103, ART 104.
- ART 317 GRAPHIC DESIGN I (3)** Fundamentals of visual conceptualization, type and image integration, creative and innovative concept development. Not available to students who successfully completed ART 317, Design for Visual Communication. Prerequisites: ART 103 and ART 217.
- ART 318 JEWELRY (3)** Investigation into aesthetics, history, function and design of jewelry. Lecture and directed studio problems in forming, joining and finishing of metallic and non-metallic materials. Prerequisites: ART 103 and ART 104 or consent of instructor.
- ART 319 [519] METALSMITHING (3)** Lecture, demonstration and directed studio problems in raising, forging, joining and finishing various metals with emphasis on design and creation of hollowware and flatware. The historic and aesthetic aspects of the media are considered. Prerequisite: ART 318.
- ART 320 FIBERS: STRUCTURES I (3)** Non-loom fiber construction including twining, coiling, crochet, felting, basketry. Functional and sculptural forms, historical and aesthetic considerations. Prerequisite: ART 104 or consent of instructor.
- ART 321 COMPUTER GRAPHICS I (3)** Utilizing Macintosh systems, software, and utilities for art, and visual communication. Prerequisites: ART 217 and ART 234.
- ART 326 FIBERS: SURFACES I (3)** Design problems executed with dye and ink on fabric using resist techniques, hand painting and printing. Prerequisite: ART 103 or consent of instructor.
- ART 328 FIBERS: STRUCTURES II (3)** Basics of hand weaving on the loom. Aesthetic and historical aspects of the media. Prerequisite: ART 103 or consent of instructor.
- ART 331 WATERCOLOR I (3)** Fundamentals explored through lecture, demonstration and studio experience: still life, landscape and the figure. Prerequisite: ART 236 or consent of the instructor.
- ART 334 [534] PHOTOGRAPHY II (3)** The aesthetic of black-and-white photography using advanced photographic processes and electronic imaging techniques. (May be taken concurrently with ART 321.) Prerequisite: ART 234.
- ART 335 [535] PHOTOGRAPHY III (3)** The aesthetic of color photography through the use of advanced color photographic processes, alternative media processes, and electronic imaging techniques. Prerequisite: ART 234.
- ART 336 PAINTING III (3)** Continued development of skills and technical expertise. Emphasis on independent problems and personal direction. Prerequisite: ART 236.
- ART 337 FIBERS: SURFACES II (3)** Contemporary design and color studies in piecing, applique, quilting, and embroidery by hand and machine. Aesthetic, historical and cultural considerations. Prerequisite: ART 103 or consent of instructor.
- ART 339 METAL: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in metal fabrication and lost wax casting. Prerequisite: ART 241.
- ART 340 MODELING: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in clay modeling emphasizing the human figure and moldmaking. Prerequisite: ART 241.
- ART 342 CARVING: CONCEPT AND PROCESS (3)** Lecture and directed studio problems in stone, wood and other media. Prerequisite: ART 241.
- ART 345 NEW DIRECTIONS IN PRINTMAKING (3)** Using technology to link printmaking to digital, photo and Xerox images. Prerequisite: ART 217.
- ART 346 NEW DIRECTIONS IN PAINTING, EXPERIMENTAL MEDIA AND ART I (3)** Development of skills and technical expertise in 2-D, 3-D, 4-D computer based and time based. Emphasis on individual expression, uniqueness and personal direction. Prerequisite: ART 229.
- ART 347 SCREEN PROCESS I (3)** Multicolor projects include paper, stencil, drawing fluid, filler hlockout, crayon resist, direct photo emulsion using water-based inks. Prerequisites: ART 103, ART 111 or consent of instructor.
- ART 349 RELIEF PROCESS I (3)** Traditional and experimental techniques in printmaking: woodcut, collagraph, subtractive relief process using oil and water-based materials. Prerequisites: ART 103, ART 111 or consent of instructor.
- ART 350 ETCHING AND INTAGLIO PROCESSES (3)** Etching, engraving, aquatint, lift ground, wood intaglio, and beginning color printing. Prerequisites: ART 103, ART 111 or consent of instructor.
- ART 351 WRITING ABOUT ART (3)** Expository writing about the visual arts, including critiques, articles, press releases and other

- formats. Emphasis on effective writing with aesthetic insight. Prerequisites: ENGI 102 or 190; ARTH 221 or 222 or consent of instructor. GenEd I.D.
- ART 353 LITHOGRAPHIC PROCESS I (3)** Personal expression through printing from litho stones and plates. Prerequisites: ART 103, ART 111 or consent of instructor.
- ART 355 TYPOGRAPHY (3)** Theory, concepts and aesthetics of type. Prerequisite: ART 317.
- ART 357 PHOTOGRAPHIC FORMATS (3)** Field experience in photographic imaging technology. Prerequisite: ART 334 or ART 335.
- ART 359 DIGITAL PHOTOGRAPHY I (3)** Digital photographic image capture, manipulation and production. Prerequisites: ART 234, ART 217.
- ART 360 COMPUTER ART I (3)** Introductory experience in producing art images on the computer. Includes lectures, demonstrations, Internet, gallery visits and lab work. Prerequisites: ART 217 and ART 229.
- ART 361 COMPUTER 3-D MODELING (3)** Ideas and technologies for developing 3-D models and images. Prerequisite: ART 217.
- ART 363 COMPUTER MULTIMEDIA I (3)** Exploration of multimedia and authoring techniques as related to interactivity on the computer using still and animated image creation. Prerequisite: ART 321 or ART 360.
- ART 365 DESIGN FOR THE WWW (3)** Authoring techniques as related to interactivity, information design and digital imaging. Prerequisite: ART 321.
- ART 366 CONCEPT MODEL MAKING (3)** Making 3-D material models out of a range of materials using precision fabrication techniques to depict innovative design ideas for products. Prerequisite: ART 368 or consent of instructor.
- ART 367 THEORY AND APPLICATION OF MATERIALS AND PROCESSES FOR INDUSTRIAL DESIGN (3)** Theory, analysis and application of how materials and processes are chosen for the design and fabrication of products. Prerequisite: ART 368 or consent of instructor.
- ART 368 INDUSTRIAL DESIGN I (3)** Product and furniture design; idea development, design of computer models, construction of 3-D material models, and presentation. Prerequisites: ART 104, ART 111, ART 241.
- ART 370 SPECIAL TOPICS IN ART (3)** In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisite: 18 credits of art courses.
- ART 371 PRODUCTION TECHNIQUES FOR THE GRAPHIC DESIGNER (3)** Experiences with the tools and methods involved in preparing camera ready art elements for print media and advertising. Prerequisites: ART 317 and one 300-level graphics (printing) course.
- ART 373 ILLUSTRATION I (3)** Use of black-and-white and color media to produce images that communicate to a mass audience. Prerequisites: ART 211 and ART 229 or consent of instructor.
- ART 377 EXHIBIT DESIGN (3)** Theory, concepts, planning, graphics, spatial aesthetics, and model construction for various professional exhibits. Management, design, and installation of art exhibits. Not open to those who successfully completed ART 220. Prerequisites: ART 103 and ART 104.
- ART 400 [500] CERAMIC RAW MATERIALS (3)** Lecture and laboratory investigation of ceramic materials as they apply to glazes, clay slips, and clay bodies. Tests and problems in ceramic raw materials. Prerequisites: ART 309, ART 310 or equivalent.
- ART 402 LIFE DRAWING AND ANATOMY I (3)** The study of anatomical structure of the human figure for art students. Drawing from the nude and draped model. Prerequisite: ART 211.
- ART 407 [508] CERAMICS: CLAY SCULPTURE (3)** Studio experience utilizing a variety of ceramic techniques. Assigned problems in sculptural directions for students experienced in handbuilding and the potter's wheel. Prerequisite: ART 310 or consent of instructor.
- ART 409 CERAMICS: THE VESSEL (3)** Studio experience utilizing a variety of ceramic techniques. Problems in utilization directions based on the vessel. Prerequisite: ART 310 or consent of instructor.
- ART 412 LIFE DRAWING AND ANATOMY II (3)** Continued study of anatomical structure of the human figure for art students. Emphasis on musculature. Drawing from the nude and draped model. Prerequisite: ART 402.
- ART 413 [513] ENAMELING II (3)** Continued studio experience in enameling. Emphasis on advanced techniques of cloisonne, pliqueajour, independent work, and personal experience are encouraged. Taught concurrently with ART 313. Prerequisite: ART 373.
- ART 414 [514] ADVANCED STUDIO (2-3)** Independent work for advanced students in field of special interest. Prerequisites: must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice.
- ART 415 [515] ADVANCED STUDIO (2-3)** Independent work for advanced students in field of special interest. Prerequisites: must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice.
- ART 416 [516] ADVANCED STUDIO (2-3)** Independent work for advanced students in field of special interest. Prerequisites: must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice.
- ART 417 GRAPHIC DESIGN II (3)** Communication graphics synthesizing formal, conceptual and technical skills. Emphasis on creative concept development using type and image. Prerequisite: ART 317, Design for Visual Communication II or consent of instructor.
- ART 418 [518] JEWELRY II (3)** Intermediate design and studio experience. Directed problems in the techniques of metal construction, forging, stone setting and cold joinery.
- ART 419 JEWELRY III (3)** Advanced design and studio experience. Directed problems, including surface treatments, die forming, and casting of metals. Emphasis on independent work and personal expression. Prerequisite: ART 418.
- ART 421 COMPUTER GRAPHICS II (3)** Directed studio experience using a variety of digital art software programs. Emphasizing artistic vision, professional pieces and digital design.
- ART 431 [531] WATERCOLOR II (3)** Intermediate studio experience: landscape, still life, figure and photographic imagery. Prerequisite: ART 331.
- ART 435 PHOTOGRAPHY IV (3)** Advanced research into the aesthetic of photographic imaging through the use of black-and-white and color photo process, alternative media processes, and electronic imaging technology. May be taken concurrently with ART 421. Prerequisites: ART 334, ART 335, and ART 321.
- ART 436 PAINTING IV (3)** Continued studio experience for advanced students with emphasis on personal direction. Prerequisite: ART 336.
- ART 437 QUILTING II (3)** Continued studies in contemporary design using piecing, applique, trapunto, and quilting by hand and machine. Prerequisite: ART 337.
- ART 438 METALSMITHING II (3)** Continued studio experiences in silver and copper smithing: raising and forging non-ferrous metals. Prerequisite: ART 319 or consent of instructor.
- ART 441 ADVANCED SCULPTURE I (3)** Lecture and directed studio problems in advanced sculpture media and concepts. Prerequisite: any 300-level sculpture course.
- ART 443 ADVANCED SCULPTURE II (3)** Continued lecture and directed studio problems in advanced sculptural media and concepts. Prerequisite: ART 441 or ART 414-16.
- ART 445 EXPERIMENTAL DIRECTIONS (3)** Lecture and directed studio problems: recent sculptural trends, concepts and technologies, including installation, performance, environments, computers, etc. Prerequisite: ART 241 or consent of instructor.
- ART 446 NEW DIRECTIONS IN PAINTING, EXPERIMENTAL MEDIA AND ART II (3)** Continued studio experience for advanced students with emphasis on personal direction. Prerequisite: ART 346.
- ART 447 [547] SCREEN PROCESS II (3)** Advanced color projects using direct photo emulsion emphasizing integration of hand drawn images with photo and computer generated images with non-toxic inks. Prerequisite: ART 347 or consent of instructor.
- ART 449 [549] RELIEF PROCESS II (3)** Traditional and experimental processes. Advanced color assignments using oil and water-based inks. Prerequisite: ART 349 or consent of instructor.
- ART 450 [550] INTAGLIO PROCESS II (3)** Multiple plate color and simultaneous color/intaglio/relief techniques and collagraph using experimental materials. Prerequisite: ART 350.
- ART 453 [553] LITHOGRAPHIC PROCESS II (3)** Personal expression, advanced printing including stone plate, and photo plate. Multiple color printing. Prerequisite: ART 353.
- ART 457 GRAPHIC DESIGN III (3)** Problems in graphic communication on the Macintosh, emphasizing individual portfolio development. Prerequisite: ART 417.

- ART 459 DIGITAL PHOTOGRAPHY II** (3) Advanced digital photographic image capture, manipulation and production. Prerequisite: ART 359.
- ART 460 COMPUTER ART II** (3) Intermediate experience in producing art images on the computer. Includes lectures, demonstrations, gallery visits, and lab work. Prerequisite: ART 360.
- ART 462 COMPUTER ART III** (3) Advanced experience in producing art images on the computer. Includes lectures, demonstrations, gallery visits and lab work. Prerequisite: ART 460.
- ART 463 COMPUTER MULTIMEDIA II** (3) Authoring techniques as related to interactivity on the computer using still and animated image creation. Prerequisite: ART 363.
- ART 468 INDUSTRIAL DESIGN II** (3) Product solutions and idea development related to operation and manufacturing, including human factors and ergonomics analysis. Prerequisite: ART 368.
- ART 469 INDUSTRIAL DESIGN III** (3) Advanced issues in product design, including experimentation in group projects and individual designs. Prerequisites: ART 366, ART 367, ART 468.
- ART 473 [573] ILLUSTRATION II** (3) Continued studio experience in illustration, developing personal approaches in various media. Emphasis on practicing professional assignments and portfolio preparation. Prerequisite: ART 373 or equivalent.
- ART 474 ILLUSTRATION III** (3) Advanced studio experience utilizing a variety of contemporary and experimental media, emphasizing creative exploration and building a professional portfolio. Prerequisites: ART 373 and ART 473.
- ART 483 PACKAGE DESIGN** (3) Designing packages with understanding of marketing, social, ethical and environmental impact. Prerequisites: ART 317, ART 321, and ART 360.
- ART 490 INTERNSHIP IN ART** (2-3) A non-paid work experience with cooperating businesses and organizations. A daily log and 100 hours of participation are required. Prerequisite: consent of instructor.
- ART 491 INTERNSHIP IN ART** (2-3) A non-paid work experience with cooperating businesses and organizations. A daily log and 100 hours of participation are required. Prerequisite: consent of instructor.
- ART 492 INTERNSHIP IN ART** (2-3) A non-paid work experience with cooperating businesses and organizations. A daily log and 100 hours of participation are required. Prerequisite: consent of instructor.
- ART 494 [594] TRAVEL AND STUDY ABROAD** (3-6) Countries and topics to be selected by the department and instructors sponsoring the program. For information, contact the Department of Art early in the semester preceding the semester of travel study. Prerequisites: consent of instructor and interview.
- ART 497 SENIOR PROJECT** (3) Directed studio. Critiques culminating in a presentation/portfolio. Prerequisite: consent of instructor.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

ART EDUCATION (ARED)

Upper Division

- ARED 371 ART AND THE CHILD** (3) Major considerations of art education appropriate to the work of the elementary teacher; experiences with art materials.
- ARED 373 ART FOR EARLY CHILDHOOD EDUCATION** (2) Lectures, demonstrations and workshops based on special needs as students experience art in nursery schools, day care centers, kindergartens, and the primary grades. Prerequisites: concurrent registration for Block I, ECED 341.
- ARED 381 MEDIA AND TECHNIQUES FOR ART TEACHERS: ELEMENTARY** (3) Introduction to Art Education. Exploration of media and processes; planning and instructional strategies. Taken concurrently with ARED 375.
- ARED 383 MEDIA AND TECHNIQUES FOR ART TEACHERS: SECONDARY** (3) Introduction to studio activities, planning and instructional strategies. Taken concurrently with ARED 374.
- ARED 465 ADVANCED ART EDUCATION** (3) Art education problems at all levels; materials and skills in relation to classroom needs. Prerequisite: ARED 371 or equivalent.
- ARED 467 FIELD EXPERIENCES IN ART EDUCATION: ELEMENTARY** (2) Analysis of instruction in selected elementary teaching situations; preparation and teaching of units in elementary schools. Taken concurrently with ARED 468, ARED 475, and ARED 479.
- ARED 468 FIELD EXPERIENCES IN ART EDUCATION: SECONDARY** (2) Analysis of instruction in selected secondary teaching situations; preparation and teaching of units in secondary schools. Taken concurrently with ARED 467, ARED 475, and ARED 479.

- ARED 475 METHODS OF TEACHING ART: ELEMENTARY** (3) Theoretical and practical aspects of teaching art: selection, design and implementation. Taken concurrently with ARED 467, ARED 468, and ARED 479.
- ARED 479 METHODS OF TEACHING ART: SECONDARY** (3) Theoretical, practical, philosophical and historical aspects of art education: content and methods of planning and instruction. Taken concurrently with ARED 467, ARED 468, and ARED 475.
- ARED 481 STUDENT TEACHING IN ELEMENTARY EDUCATION-ART** (6) Practical experiences in observation, participation, and student teaching in a public elementary school under the guidance of a cooperating teacher and a university supervisor. Prerequisites: all art foundation requirements, all ARED courses, PSYC 101, PSYC 201 and SCED 319 (or SCED 341). Taken concurrently with ARED 487 and ARED 488.
- ARED 483 STUDENT TEACHING IN SECONDARY EDUCATION-ART** (6) Practical experiences in observation, participation, and student teaching in public secondary school under the guidance of a cooperating teacher and a university supervisor. Prerequisites: all art foundation requirements, all ARED courses, PSYC 101, PSYC 201, and SCED 319 (or SCED 341).
- ARED 485 PRO-SEMINAR IN THE TEACHING OF ART** (3) A professional seminar for Art Education majors. Discussion of problems in the current teaching experience. Prerequisite: permission of Art Education faculty. Taken concurrently with student teaching.

ART HISTORY (ARTH)

Lower Division

- ARTH 105 ART IN THE CULTURE** (3) Forms of art in relation to world culture. GenEd II.D.
- ARTH 107 ART: THEMES, DREAMS, AND VISIONS** (3) Artists' ideas, subjects, and motifs across time and place. GenEd II.D.
- ARTH 108 INTRODUCTION TO NON-WESTERN ART** (3) Non-western arts of the Americas, Africa, Oceania, Islam, India, China, Japan. GenEd. II.D.
- ARTH 109 ART AND THE HUMAN BODY** (3) Depictions of the human body in western Art. GenEd II.C.1.
- ARTH 113 MYTHS AND STORIES IN AMERICAN ART** (3) Myths, stories, folk tales, and narratives depicted through American art. GenEd II.B.1.
- ARTH 207 HONORS: SEMINAR IN ART HISTORY** (3) Specific historical period/movement or artist with presentations, critiques, directed readings and research paper. GenEd II.C.1.
- ARTH 208 HONORS: SEMINAR IN NON-WESTERN ART HISTORY** (3) Specific historical, period/movement or artist within the non-western tradition with presentations, critiques, directed readings and research paper. GenEd II.D.
- ARTH 221 SURVEY OF WESTERN ART I** (3) Prehistoric to Medieval art. GenEd II.C.1.
- ARTH 222 SURVEY OF WESTERN ART II** (3) Renaissance to Modern art. Prerequisite: ARTH 221. GenEd II.C.1.

Upper Division

- ARTH 301 ORIGINS OF WESTERN ART** (3) Historical survey concentrating in Paleolithic, Egyptian, Mesopotamian, and Aegean art and architecture. Prerequisite: ARTH 221.
- ARTH 303 GREEK ART AND ARCHITECTURE** (3) History of the art and architecture of Ancient Greece. Prerequisite: ARTH 221.
- ARTH 305 ROMAN ART AND ARCHITECTURE** (3) History of the art and architecture of the Roman Empire and the Early Christian World. Prerequisite: ARTH 221.
- ARTH 307 MEDIEVAL ART** (3) History of the art and architecture of the Romanesque and Gothic periods. Prerequisite: ARTH 221.
- ARTH 309 ITALIAN RENAISSANCE ART AND ARCHITECTURE** (3) History of the architecture, painting and sculpture of the Italian Renaissance. Prerequisite: ARTH 222.
- ARTH 311 NORTHERN RENAISSANCE ART AND ARCHITECTURE** (3) History of the architecture, painting, and sculpture of France, Germany, and Flanders. Prerequisite: ARTH 222.
- ARTH 313 BAROQUE ART AND ARCHITECTURE** (3) History of the art and architecture of the 17th century in Italy, France, Spain, Holland and Flanders. Prerequisite: ARTH 222.
- ARTH 323 MODERN ART I** (3) History of the painting and sculpture of Europe from the Rococo to Post-Impressionism. ARTH 222.

- ARTH 324 MODERN ART II (3)** History of 20th-century art concentrating on painting and sculpture from Europe and the United States. Prerequisite: ARTH 222.
- ARTH 325 HISTORY OF MODERN ARCHITECTURE (3)** History of European and American architecture of the 20th century. Prerequisites: ARTH 221 and ARTH 222.
- ARTH 327 HISTORY OF MODERN DESIGN (3)** Twentieth century graphic, furniture, industrial, product, textile and domestic design. Prerequisites: ARTH 221 and ARTH 222.
- ARTH 331 THE ART OF CHINA (3)** History of the painting, sculpture, craft and architecture of China and peripheral regions. Prerequisites: ARTH 105, ARTH 221, or ARTH 222 or consent of instructor.
- ARTH 333 THE ART OF JAPAN (3)** History of the painting, sculpture, and architecture of Japan. Prerequisites: ARTH 105, ARTH 221, or ARTH 222 or consent of the instructor.
- ARTH 335 AFRICAN-AMERICAN ART (3)** African-American art and artists in the context of American Art. Prerequisites: ARTH 105, ARTH 222, ARTH 313 or consent of instructor.
- ARTH 337 AMERICAN ART (3)** History of American architecture, art, and crafts from the colonial period to the present. Prerequisites: ARTH 105, ARTH 222 or consent of instructor.
- ARTH 341 WOMEN IN ART (3)** Images of women and images made by women in western and non-western cultures from prehistoric to the present. Prerequisites: ARTH 105 or ARTH 222 or consent of instructor.
- ARTH 351 HISTORY OF PHOTOGRAPHY (3)** World photography from the early 19th century to the present. Prerequisite: ARTH 105 or ARTH 222.
- ARTH 370-379 SPECIAL TOPICS IN ART HISTORY (3)** In-depth study of a selected period, theme, or artist. May be repeated for a maximum of 6 credits when different topics are covered. Prerequisites: ARTH 221 and ARTH 222 or consent of instructor.
- ARTH 391 RESEARCH METHODS IN ART HISTORY (3)** Bibliographic research and procedures. History of scholars and writing in the field. Prerequisites: ARTH 221 and ARTH 222 and two upper-division art history courses.
- ARTH 485 [585] SEMINAR IN ART HISTORY (3)** Intensive analysis of a single artist, a defined historical period, or a stylistic development in art. Directed reading, discussions, and museum tours. Variable content. May be repeated under a different topic for a maximum of 9 credits, including attempts of ARTH 485. Prerequisites: ARTH 222 and one upper-division art history or consent of instructor.
- ARTH 495/96/97 INDEPENDENT STUDY IN ART HISTORY (3,3,3)** Advanced research and examination of a topic in art history. Prerequisites: ARTH 221, ARTH 222, and at least one 300-level art history.
- ARTH 499 SENIOR HONORS THESIS (4)** Thesis under the direction of an adviser. Prerequisite: admission to the Department of Art Honors Program.

ASTRONOMY (ASTR)

Lower Division

- ASTR 161 GENERAL ASTRONOMY I (4)** Science of astronomy; investigations and theories concerning the solar system, galaxies and the universe. Three lecture hours and one two-hour laboratory period. High school algebra suggested. GenEd II.A.1.

Upper Division

- ASTR 301 COSMIC ORIGINS (3)** Origin and evolution of the universe, stars and planets; the rise of life on Earth; social, technological and ethical issues raised by the scientific search for extraterrestrial life and its possible discovery on other worlds. Prerequisite: one course in GenEd II.A.1.
- ASTR 303 ASTROPHYSICAL TECHNIQUES (3)** Observational astronomy using the department's telescope and NASA archival data, emphasizing equipment operating principles, scientific methods, signal statistics, data reduction. Includes imaging and photometry with Coupled Charge Devices in addition to spectroscopy, space observations, radio astronomy. Prerequisites: ASTR 331, PHYS 341.
- ASTR 331 INTRODUCTION TO ASTROPHYSICS (3)** Applications of physics in astronomy, spectroscopy, stellar interiors and evolution, the interstellar medium, cosmology. Prerequisite: ASTR 161; PHYS 212 or PHYS 242 may be taken concurrently.
- ASTR 361 ASTRONOMY II (3)** Stars, stellar systems, galaxies and cosmology. Emphasizing determination of the distance scale and modern trends in astronomy. Prerequisite: ASTR 161 or acceptable substitute.

- ASTR 423 PARTICLE ASTROPHYSICS (3)** Atomic, nuclear, and particle physics; presenting elements of star and galaxy formation and cosmology. Prerequisites: ASTR 161, PHYS 307, PHYS 311; ASTR 361 recommended.

- ASTR 470-479 SELECTED TOPICS IN CONTEMPORARY ASTROPHYSICS (3)** Variable content including the origin of the elements and radio, microwave, and UV instruments and sources. Prerequisite: ASTR 331.

- ASTR 495 CAPSTONE PROJECT IN ASTROPHYSICS (3)** Individual project in observational or theoretical astrophysics. Prerequisite: senior standing in Astrophysics track or consent of instructor.

BIOLOGY (BIOL)

The following courses may involve the use of vertebrate animals in class demonstrations or experiments. Such use is considered a requirement for successful completion of the courses. Students should consult instructors if they have questions or concerns about animal use in a particular course.

Lower Division

- BIOL 100 HUMANISTIC BOTANY (3)** Selected botanical topics of interest to the non-science major. Topics will include poisonous plants, medicinal plants, plant hallucinogens, tree-ring dating, botanical genetics, bonsai and commercial uses of major plant groups. Not for biology major credit. No credit will be given to those who successfully completed BIOL 205.

- BIOL 103 HUMAN BIOLOGY (3)** Basic principles of human body processes in normal and certain abnormal conditions for non-science majors. The emphasis will be on physiology with sufficient anatomy for its understanding. Not for Biology major credit. Not open to those who successfully completed BIOL 213, BIOL 214, or BIOL 325.

- BIOL 105 ENVIRONMENTAL BIOLOGY (3)** Analysis of problems caused by use of the natural world emphasizing biological aspects of this interdisciplinary subject. Not for Biology major credit.

- BIOL 110 CONTEMPORARY GENERAL BIOLOGY (4)** Biological principles common to plants and animals. Topics include cell structure and process (both physical and biochemical), mitosis, gametogenesis, aspects of embryology, genetics, evolution and ecology. Average of two laboratory hours per week. Not open to those who successfully completed BIOL 201. GenEd II.A.1.

- BIOL 112 HONORS CONTEMPORARY GENERAL BIOLOGY (4)** Biological principles common to plants and animals. Topics include cell structure and process (both physical and biochemical), mitosis, gametogenesis, aspects of embryology, genetics, evolution and ecology. Average of two laboratory hours per week. Not open to those who successfully completed BIOL 201. Special permit by Honors College Committee only. This course will be equated with BIOL 110 for use as a prerequisite or in entering the major. GenEd II.A.1

- BIOL 115 BIOLOGICAL SCIENCE I (4)** Integrates concepts of modern molecular genetics, evolution, and natural selection. Not for Biology major credit. GenEd II.A.1.

- BIOL 116 BIOLOGICAL SCIENCE II (4)** Integrates concepts of biology and chemistry of cellular metabolism and ecology. Environmental implications of human activities. Not for Biology major credit. Prerequisite: BIOL 115 or consent of instructor.

- BIOL 201 BIOLOGY I: CELLULAR BIOLOGY AND GENETICS (4)** An introduction to biology, including biologically important molecules, cell and tissue structure, respiration, photosynthesis, mitosis, meiosis, and genetics. Average of three laboratory hours per week. Prerequisite: CHEM 110 (may be taken concurrently) or one year high school chemistry. Major credit not given for both BIOL 201 and BIOL 110. GenEd II.A.1.

- BIOL 202 BIOLOGY II: INTRODUCTION TO ECOLOGY, EVOLUTION, AND BEHAVIOR (4)** Population dynamics, community patterns and processes, natural selection, population genetics, and behavioral ecology; emphasis on developing testable hypotheses and quantitative analyses of biological data. Prerequisite: BIOL 110 or BIOL 112 or BIOL 201 or high school General Biology. GenEd II.A.1.

- BIOL 205 GENERAL BOTANY (4)** Plant structure, development, reproduction, and diversity of life forms by interrelating hormones, physiological processes, and environmental relationships with respect to the whole plant. Emphasis on flowering plants. Average of three laboratory or discussion hours per week. Prerequisite: BIOL 201 or BIOL 110.

BIOL 207 GENERAL ZOOLOGY (4) Major animal phyla. A comparative approach to the structure, function, development and ecology of the animal kingdom. Average of three laboratory hours per week. Prerequisite: BIOL 202 or BIOL 110.

BIOL 213 HUMAN ANATOMY AND PHYSIOLOGY I (4) Cell biology, histology, skeletal, muscular and nervous systems. Average of three laboratory hours per week. *To receive Biology major credit, BIOL 214 must also be completed.* Prerequisite: BIOL 201 or BIOL 110.

BIOL 214 HUMAN ANATOMY AND PHYSIOLOGY II (4) Cardiovascular, respiratory, digestive, excretory, endocrine, and reproductive systems. Average of three laboratory hours per week. *To receive Biology major credit, BIOL 213 must also be completed.* Students who successfully completed BIOL 325 may not take this course without departmental approval. Prerequisite: BIOL 213.

BIOL 215 FOUNDATIONS OF MICROBIOLOGY (4) Pathogenesis of bacteria and viruses, their interactions with the human body, and methods of treatment and prevention. Three hours of laboratory per week. Recommended for Health Science majors. Not for Biology major credit. Prerequisite: BIOL 110.

Upper Division

BIOL 301 FIELD NATURAL SCIENCE (4) Physical and biological components of various environments and their interrelationships with each other and man. Emphasis on field observation. Average of three laboratory hours per week. Not for credit toward Biology major, minor, or M.S. degree in biology. Prerequisite: BIOL 110 or BIOL 201.

BIOL 302 [512] INSTRUMENTAL METHODS FOR BIOLOGISTS Principles of electronics, data management, analytical techniques, radioisotope applications, and physiological monitoring methods. Average of four laboratory hours per week. Prerequisites: BIOL 205 or BIOL 207; PHYS 203 or PHYS 212 or PHYS 242; CHEM 111 and CHEM 210 or CHEM 211 or consent of instructor.

BIOL 303 [509] LIFE SCIENCES (3) Living organisms in the environment, emphasizing modes of scientific inquiry and the utilization of living organisms in the classroom. Prerequisite: BIOL 110. Not for credit toward Biology major, minor, or M.S. degree in biology.

BIOL 305 [505] ELECTRON MICROSCOPY (4) Theory, preparation, and application of the electron microscope, including light microscopy. Average of three laboratory hours per week. Prerequisites: 12 credits of biology, PHYS 211, PHYS 212 recommended, and consent of instructor.

BIOL 307 [507] INTRODUCTION TO PALEONTOLOGY (4) Examination of major forms of life with the emphasis on appearances, diversification, and extinctions during the different geologic periods. Prerequisite: minimum 10 credits in Biology.

BIOL 309 PRINCIPLES OF GENETICS (4) Problem-based genetics: Mendelian genetics, genetic linkage and mapping, nucleic acid structure, replication and function, protein synthesis and the genetic code, gene expression and regulation, mutation, repair and recombination, recombinant DNA technology, and population genetics. Not open to those who successfully completed BIOL 401. Prerequisites: BIOL 202, CHEM 330 or CHEM 332 (may be taken concurrently).

BIOL 310 [510] ENVIRONMENTAL CONSERVATION (4) Conservation practices and problems. Soil, water, forest, and wildlife resources with emphasis on interrelationships. Specialists in various phases of local, state, and federal conservation work conduct or assist in numerous field trips. Average of three laboratory hours per week. Prerequisites: BIOL 110 or BIOL 201 and 10 hours of biology, or a combination of 10 hours from biology, geography and physical sciences.

BIOL 313 BIOLOGY OF AGING (3) Age-related changes in the human body at the cellular through organ system levels, emphasizing changes in structure and function that alter the ability to maintain homeostasis or a high quality life. Not for credit toward Biology major, minor, or M.S. program. Prerequisite: BIOL 103 or BIOL 213/214.

BIOL 315 [515] MEDICAL MICROBIOLOGY (4) Pathogenesis of bacterial, viral, rickettsial, and fungal diseases with emphasis on medically important bacteria and microbiological techniques. Recommended for students pursuing a career in medical sciences. Prerequisites: BIOL 110 or BIOL 201; CHEM 111 or CHEM 106 (may be taken concurrently). Either this course or BIOL 318, but not both, may count toward Biology major or M.S. degree in biology.

BIOL 317 [517] MICROTÉCHNIQUE (4) Techniques used in preparation of plant and animal tissues for histological examination. Average of three laboratory hours per week. Prerequisite: BIOL 110 or BIOL 111. (CHEM 111 may be taken concurrently.)

BIOL 318 [518] MICROBIOLOGY (4) Biology of microorganisms with emphasis on bacteria. Microbial morphology, physiology and genetics, and the role of microorganisms in natural processes and disease. Laboratory includes methods of observing, isolating and identifying bacteria. Average of three laboratory hours per week. Either this course or BIOL 315, but not both, may count toward Biology major or M.S. degree in Biology. Prerequisite: CHEM 330 or CHEM 331 (may be taken concurrently).

BIOL 321 BIOLOGY OF WOMEN (3) Anatomy and physiology, evolution of reproduction, health related issues, gestation, lactation, and child care; the role of women in the work force and sciences, including ecofeminism; contribution of women to global initiatives, including ecofeminism. Not for credit toward Biology major, minor, or M.S. program. Prerequisite: one course fulfilling GenEd II.A.1, GenEd II.A.2.

BIOL 322 BIOTECHNOLOGY AND SOCIETY (3) Use of biotechnology in medicine, agriculture and ecology; applications, ethics and future implications. Prerequisite: BIOL 110 or BIOL 112 or BIOL 201.

BIOL 325 ENVIRONMENTAL ANIMAL PHYSIOLOGY (4) Animal structure and function from the molecular to organismic levels. Emphasis on comparative strategies and adaptations of various animal groups in their respective environments; response of integrated systems to changes in the physical and chemical environment; environmental physiology. Will not count toward Biology major credit for those who successfully completed BIOL 213-214. Prerequisites: BIOL 207, CHEM 111.

BIOL 331 [531] PLANT MORPHOLOGY (4) A survey of the plant kingdom with emphasis on evolutionary relationships, morphology, and life histories as affected by environmental conditions. A Saturday field trip may be required. Average of three laboratory hours per week. Prerequisite: BIOL 205.

BIOL 335 ECONOMIC BOTANY (3) Plants and plant products which provide man with various luxuries and necessities. Emphasis will be on higher plants commercially important in North America. Prerequisite: BIOL 205.

BIOL 341 [543] FRESH WATER ALGAE (4) Systematics, structure, ecology, physiology, and life histories of fresh water algae. Laboratory will include methods of collection, culture, and experimental study of selected species. Prerequisites: BIOL 205; BIOL 331 recommended.

BIOL 345 [545] MYCOLOGY (4) Morphology, classification, life histories, and economic applications of fungi. Average of three laboratory hours per week. Prerequisite: BIOL 205.

BIOL 347 MARINE BIOLOGY (3) Major features of the marine environment, emphasizing biological aspects and specific adaptations of marine organisms. Prerequisites: BIOL 205, BIOL 207.

BIOL 349 [549] MARINE BOTANY (4) The ecology, physiology and identification of marine plants, emphasizing the Chesapeake Bay and coastal areas of Maryland. Prerequisites: BIOL 347; BIOL 331 strongly recommended.

BIOL 351 [551] FIELD AND SYSTEMATIC VERTEBRATE ZOOLOGY (4) Evolution, distribution, and definitive features of each class are studied comparatively. Extensive field and laboratory work deals with morphological, taxonomic, ecological and behavioral features of selected vertebrate groups and species. Average of three laboratory hours per week. Prerequisite: BIOL 207.

BIOL 353 [553] INVERTEBRATE ZOOLOGY (4) Aquatic and terrestrial species of phyla from the Protozoa through the Echinodermata with special emphasis on local forms. Economic, ecological, and taxonomic considerations. Average of three laboratory hours per week. Prerequisite: BIOL 207.

BIOL 355 ANIMAL PARASITOLOGY (4) Major groups of animal parasites and their vectors. Emphasis will be placed on the more important human parasites. Prerequisite: BIOL 207 or BIOL 214 or BIOL 311.

BIOL 360 [560] HISTOLOGY (4) Tissues of the vertebrate body. Prerequisite: BIOL 311 or BIOL 214.

BIOL 367 [568] ENDOCRINOLOGY (3) Endocrine mechanisms regulating homeostasis and functional integrity of animals with emphasis on vertebrates. Prerequisites: BIOL 214 or BIOL 311, CHEM 102.

- BIOL 371 [571] ANIMAL BEHAVIOR (4)** Ethological approach to the comparative study of animal behavior. Major emphasis on the adaptive function of behavior and classification of behavioral mechanisms. Average of three laboratory hours per week. Prerequisite: BIOL 207.
- BIOL 381 BIOLOGICAL LITERATURE (3)** Familiarization with the literature of biology through the preparation of papers requiring a knowledge of techniques for exploring the literature. Three one-hour lectures per week. Not for major or minor credit or M.S. degree in biology. Prerequisites: ENGL 102 or 190, and at least 10 hours of biology. GenEd I.D.
- BIOL 389 CURRENT DEVELOPMENTS IN BIOLOGY (3)** Current directions of research in a major area of the biological sciences. Sufficient background will be given for the appreciation of the significance of these developments. May not be repeated for major credit. Prerequisites: BIOL 205, BIOL 207, and consent of instructor.
- BIOL 398 STUDENT TEACHING IN SECONDARY EDUCATION -- BIOLOGY (12)**
- BIOL 402 GENERAL ECOLOGY (4)** Effects of the abiotic environment on distribution and abundance of organisms; organization of biological communities; ecosystems; evolution of different reproductive strategies; and application of ecological principles to natural resource conservation. Several day-long trips required. Prerequisite: BIOL 202; and BIOL 205 or BIOL 207.
- BIOL 403 [503] ADVANCED GENETICS (3)** Emphasis on the molecular basis of gene action. Discussion of current work and methods related to the problem of gene structure, function, and mutation, including the translation and regulation of genetic information. Prerequisite: BIOL 309 or BIOL 401.
- BIOL 404 [504] ECOLOGICAL TECHNIQUES (3)** Lectures and readings on investigative techniques employed by ecologists in the various specialty fields. An individual investigation, laboratory, or field, using appropriate equipment, is required. Prerequisite: BIOL 402 or its equivalent.
- BIOL 406 [506] LIMNOLOGY (4)** Physical, chemical, and biological factors that affect fresh-water organisms and some of the standard methods used to analyze these factors. Average of three laboratory hours per week. Prerequisites: BIOL 205, BIOL 207; BIOL 402 is recommended; CHEM 111, PHYS 212.
- BIOL 408 [508] CELL BIOLOGY (4)** The molecular and morphological organization of the cell in relationship to cellular activities with emphasis on eukaryotic cells. Average of three laboratory or discussion hours per week. Prerequisites: BIOL 207 or BIOL 214 or BIOL 311; CHEM 330 or CHEM 331.
- BIOL 409 MOLECULAR BIOLOGY (3)** Molecular basis of genetic inheritance and gene expression. DNA and RNA structure, DNA replication, sources and mechanisms of mutation and repair. Genome structure and organization in viruses, prokaryotes and eukaryotes. Prerequisite: BIOL 309.
- BIOL 410 MOLECULAR BIOLOGY LABORATORY (2)** Modern molecular genetic research techniques. The theoretical and practical considerations of the organisms and enzymes used in molecular biology, gene cloning strategies, DNA sequencing and analysis, analysis of genome structure and gene expression, gene subcloning, and transgenic organisms. Prerequisite: BIOL 409 (may be taken concurrently).
- BIOL 411 [511] WILDLIFE BIOLOGY (4)** Important wildlife species with emphasis on aspects of research and management. Specific techniques and problems are studied in the field. Average of three hours per week in laboratory and field work. Prerequisite: BIOL 207.
- BIOL 413 [513] EVOLUTION (3)** Concepts of biological evolution, the history of the development of these concepts, and current topics in evolutionary biology. Prerequisites: BIOL 202 and either BIOL 205 or 207.
- BIOL 421 [521] IMMUNOLOGY (4)** Fundamental principles of immunology with emphasis on the nature of antibodies and antigens, blood groups, antibody-antigen reactions, hypersensitivity, autoimmunization, tumor immunology, artificial grafting, and the preparation of vaccines. Prerequisite: BIOL 315 or 318.
- BIOL 422 [522] ADVANCED IMMUNOLOGY (2)** An advanced study of current topics in immunology, including humoral and cell-mediated immunity, histocompatibility, hypersensitivity, autoimmunity, tumor immunology, immunologic disorders, and the use of mono-clonal antibodies as a research tool. Prerequisite: BIOL 421 or its equivalent or consent of instructor.
- BIOL 425 [525] DISSECTION OF THE UPPER EXTREMITY (2)** Gross anatomical dissection of the human upper extremity, including the muscles, nerves, and blood vessels which supply the appendage. Special emphasis will be placed on development of techniques which assure careful and accurate dissection. Will be offered only in the Minimester. Prerequisites: BIOL 213 or BIOL 311 and consent of instructor.
- BIOL 427 NEUROMUSCULAR MECHANISMS OF THE UPPER BODY (2)** Gross anatomy of the human upper extremity and cranial nerves. Upper extremity emphasis includes muscle action, innervation, and major spinal cord pathways. Olfactory, optic, auditory, and vestibular functions of cranial nerves are stressed. One lecture and two laboratory periods per week. Prerequisites: BIOL 110; BIOL 311 or BIOL 213.
- BIOL 428 [528] VIROLOGY (3)** Pathogenesis, morphology, and life cycles of bacterial, animal and plant viruses. Emphasis will be on animal viruses causing disease in humans. Prerequisite: BIOL 315 or BIOL 318.
- BIOL 431 [530] HORTICULTURE (4)** Plant culture and application to developing desirable plantings on home grounds or in public places with examples of appropriate types of plants for specific situations. Average of three laboratory hours per week. Prerequisite: BIOL 205.
- BIOL 432 [532] VASCULAR PLANT TAXONOMY (4)** A study of the history and principles of vascular plant systematics with laboratory time devoted to collection and identification of plants in the local flora. An average of three laboratory hours per week. Prerequisites: BIOL 205, BIOL 331 or consent of instructor.
- BIOL 435 [535] PLANT ECOLOGY (4)** Environmental factors and processes which control plant distribution, plant communities, and vegetational biomes of North America. An average of 3 laboratory hours per week with two required three-day weekend field trips and a Saturday field trip emphasizing examples from Maryland and the Mid-Atlantic States. Prerequisites: BIOL 202 and BIOL 205.
- BIOL 436 [536] PLANT PHYSIOLOGY (4)** Life functions of plants as related to structure at all levels: cells, organs, and the complete organism. Consideration of the interaction of environmental and genetic factors on plant metabolism. Average of 3 laboratory hours per week. Prerequisites: BIOL 205 and CHEM 111; CHEM 330 recommended.
- BIOL 439 [539] PLANT ANATOMY (4)** Origin and development of organs and tissue systems in vascular plants. Average of three laboratory hours per week. Prerequisite: BIOL 205.
- BIOL 441 [541] PLANT PATHOLOGY (4)** Plant diseases, their symptoms, causal agents, etiology, epidemiology, prevention, and control. Average of three laboratory hours per week. Prerequisite: BIOL 205.
- BIOL 455 FISH BIOLOGY (4)** Evolutionary history, functional biology, ecology, and conservation of fishes. Weekend field trips required. Prerequisites: BIOL 207 and CHEM 111; BIOL 325 recommended.
- BIOL 456 [556] ORNITHOLOGY (4)** Evolutionary history, morphology, physiology, behavior and ecology of birds. One day-long weekend field trip and several early morning weekday field trips required. Prerequisites: BIOL 202 and BIOL 207 or consent of instructor.
- BIOL 458 [558] MAMMALOLOGY (4)** Evolution, comparative morphology, systematics, and distribution of mammals. Representative life histories are considered. Average of three laboratory hours per week. Prerequisite: BIOL 207.
- BIOL 461 [561] ENTOMOLOGY (4)** Laboratory and field course in insects. Identification and recognition of the more common families and orders and a study of their structure, behavior, ecology, economic importance and control. Average of three laboratory hours per week. Prerequisite: BIOL 207.
- BIOL 463 [563] ANIMAL EMBRYOLOGY (4)** Developmental anatomy and the underlying principles involved in development. This last area will be approached from an experimental base. Average of three laboratory hours per week. Prerequisite: BIOL 207 or BIOL 214 or BIOL 311.
- BIOL 465 [565] MAMMALIAN PHYSIOLOGY (4)** An advanced physiology course that draws heavily upon knowledge gained in earlier courses to understand the aspects of organismal function unique to mammals. The course attempts to integrate all levels of organismal processes, ranging from molecular phenomena to whole animal function. The laboratories emphasize hands-on learning and experiences with live animals. Minimum of three laboratory hours per week. Prerequisites: BIOL 213 and 214 or BIOL 325, or BIOL 469; CHEM 111. CHEM 332 and CHEM 351 recommended.

- BIOL 467 [567] HERPETOLOGY (4)** Systematic survey of the modern reptiles and amphibians. Emphasis is placed on the evolution of morphological and behavioral traits which have enabled the reptiles and amphibians to successfully exploit their individual habitats. Laboratory includes systematic classification, student seminars and field work. Average of three laboratory hours per week. Prerequisite: BIOL 207.
- BIOL 469 [569] COMPARATIVE ANIMAL PHYSIOLOGY (4)** Functions, interactions, and regulation of organ systems in animals and their roles in sensory perception and integration, movement, oxygen utilization, energy procurement, temperature regulation, and water metabolism. Prerequisites: BIOL 207, BIOL 213 and 214 or BIOL 325; and CHEM 111.
- BIOL 481 [581] DIRECTED READING IN BIOLOGY (1-3)** Independent reading in an area selected by the student in consultation with the instructor. May not be applied toward the Biology major, Biology minor, or M.S. degree in biology. May be repeated for a maximum of 3 credits. Prerequisite: a minimum of 10 hours in biology.
- BIOL 483 WORKSHOP IN BIOLOGY (2)** Intensive study of a specific topic or technique in the biological sciences. Topic varies with instructor. May be repeated for credit once provided a different topic is covered. Prerequisites: one biology course and consent of instructor.
- BIOL 485 [585] SEMINAR IN MICROBIOLOGY AND CELL BIOLOGY (1)** Current research articles in Cell Biology and Microbiology are reviewed. May be repeated for a maximum of 2 credits. Prerequisites: 12 credit hours in biology, including one of the following: BIOL 309, BIOL 315, BIOL 318, BIOL 401, or BIOL 408.
- BIOL 486 BIOLOGY MAJORS SEMINAR (1)** Specific topic examined at the molecular, cellular, organismic, and ecological levels of organization. Students will be required to present an oral and written report on an aspect of the topic. Prerequisites: 10 hours in biology or consent of instructor, BIOL 202, BIOL 205, and BIOL 207.
- BIOL 491 INDEPENDENT RESEARCH IN BIOLOGY (2-3)** Independent investigation of a problem under the supervision of a staff member culminating in a written presentation. May not be used toward Biology minor or M.S. degree in Biology. May be repeated for a maximum of 5 credits. Prerequisite: prior written consent of instructor who will direct research; 15 hours in biology recommended.
- BIOL 493 INTERNSHIP IN BIOLOGY (3)** Practical application of biology in businesses, industries, public and private agencies. Not for major or minor credit. Prerequisites: 2.75 QPA, junior or senior standing, a minimum of 11 credits in Biology completed at Towson University; major in Biology, and consent of the biology internship coordinator. Special permit and co-op fee required. May be repeated once for credit. Graded S/U.
- BIOL 494 [594] TRAVEL STUDY (1-3)** A detailed investigation of field oriented problems in biology away from the Towson University campus. Locations and topics to be selected by the department and instructors sponsoring the program. May be repeated for a maximum of 3 credits. Prerequisites: BIOL 110 and consent of instructor.
- BIOL 495 COURSE RESEARCH (1)** Research related to a specific course successfully completed by the student by invitation or with the consent of the instructor. Not for credit toward the Biology major, minor, or M.S. degree in biology. Prerequisite: BIOL 110. May be repeated once for research related to a different course successfully completed by the student.
- BIOL 498 HONORS RESEARCH IN BIOLOGY (2)** Individual research of an extensive nature under the direction of a faculty member, culminating in an honors thesis. Credit for BIOL 498 not awarded until BIOL 499 is successfully completed. May not be used toward M.S. degree in biology. Prerequisites: open only to advanced honors candidates and by consent of instructor.
- BIOL 499 SENIOR THESIS IN BIOLOGY (2)** Writing of an honors thesis based on individual research done under the direction of a faculty member. May not be used toward M.S. degree in biology. Prerequisites: open only to advanced honors candidates and by consent of instructor.

Graduate Division

See TU *Graduate Catalog* for course descriptions.

CHEMISTRY (CHEM)

Lower Division

- CHEM 100 CHEMISTRY FOR NON-SCIENTISTS (3)** Current and future technological and scientific developments, including topics such as nuclear power, environment, pollution, and body chemistry. Three lecture-demonstration hours. GenEd II.A.1.
- CHEM 103 FOUNDATIONS OF CHEMISTRY (3)** Development of reasoning and quantitative skills for problem solving. Introduction to atomic structure, chemical reactions, chemical nomenclature, formulas, symbols and equations, basic skills for laboratory work. Three lecture hours. Not for credit toward Chemistry major or minor. S/U grading.
- CHEM 105 CHEMISTRY FOR ALLIED HEALTH PROFESSIONS I (4)** An introduction to the concepts of general chemistry, including states of matter, atomic structure and periodic table, molecular structure, chemical reactions, intermolecular forces, solutions, buffers and pH, and radioactivity. Laboratory includes data handling and chemical and instrumental techniques. This course may not be used as a prerequisite for the Chemistry major program. Three lecture hours and one three-hour laboratory. Prerequisite: MATH 115 or MATH 119 (either may be taken concurrently). GenEd II.A.1.
- CHEM 106 CHEMISTRY FOR ALLIED HEALTH PROFESSIONS II (4)** An introduction to organic chemistry and biochemistry using a functional group approach; physical and chemical properties and typical reactions of organic compounds; composition and properties of lipids, carbohydrates, proteins, and nucleic acids, and the role of enzymes, vitamins and hormones. The laboratory introduces students to simple techniques of synthesis and analysis, including chromatographic and chemical methods. Three lecture hours and one three-hour laboratory. Prerequisite: CHEM 105. GenEd II.A.1.
- CHEM 110 GENERAL CHEMISTRY I (4)** Atomic and molecular structure; theories of bonding, stoichiometry; chemical reactions; states of matter; solutions. Laboratory work involves experiments dealing with the determination of physical properties of matter, molecular weights of compounds, stoichiometry, atomic and molecular structure, and common types of reactions. Three lecture hours and one three-hour laboratory period. Not open to those who successfully completed CHEM 101. Prerequisite: MATH 115 or MATH 119 (either may be taken concurrently). GenEd II.A.1.
- CHEM 111 GENERAL CHEMISTRY II (4)** Chemical thermodynamics, equilibrium, kinetics, solutions; acids, bases, and their aqueous equilibria; solubility product; oxidation-reduction and electrochemistry; elements of coordination and nuclear chemistry; chemistry of some important metallic and nonmetallic elements. Laboratory includes preparation and quantitative analysis of a coordination compound; semimicro qualitative analysis of selected cations and anions. Three lecture hours and one three-hour laboratory period. Offered each semester. Not open to those who successfully completed CHEM 102. Prerequisite: CHEM 101 or CHEM 110, with a grade equivalent of 2.00 or higher in CHEM 102 or CHEM 111 recommended. GenEd II.A.1.
- CHEM 112 HONORS CHEMISTRY FOR NON-SCIENTISTS (3)** Discussion of a selected aspect of chemistry and its applications to technology, environment and society. Topics will vary. Three lecture-demonstration hours. Prerequisites: high school chemistry recommended. Special permit from Honors College Committee required. GenEd II.A.1.
- CHEM 210 PRINCIPLES AND METHODS OF CHEMICAL ANALYSIS (4)** A one-semester course in chemical analysis for non-chemistry majors, emphasizing the theory and application of common gravimetric, volumetric, chromatographic, spectrophotometric, and electrometric techniques. Two lecture hours, one recitation hour, and four laboratory hours. Prerequisite: CHEM 102 or CHEM 111, with a grade equivalent of 2.00 or higher recommended.
- CHEM 213 INTRODUCTION TO QUANTITATIVE ANALYTICAL CHEMISTRY (3)** Treatment of data pertaining to chemical analysis. Theory and practice of common gravimetric, volumetric, chromatographic and spectrophotometric methods of analysis. Three lecture hours. It is highly recommended that CHEM 215 be taken concurrently or within the same academic year. Not open to those who successfully completed CHEM 211. Prerequisite: CHEM 102 or CHEM 111, with a grade equivalent of 2.00 or higher recommended.
- CHEM 215 QUANTITATIVE ANALYTICAL CHEMISTRY LABORATORY (2)** Classical gravimetric and volumetric methods of analysis. Introduction to analytical application of chromatography,

potentiometry, and spectrophotometry. Six laboratory hours. It is highly recommended that CHEM 213 and CHEM 215 be taken concurrently or within the same academic year. Not open to those who successfully completed CHEM 211. Prerequisite: CHEM 102 or CHEM 111, with a grade equivalent of 2.00 or higher recommended. Pre/corequisite: CHEM 213.

Upper Division

CHEM 301 PROFESSIONAL ETHICS FOR SCIENTISTS (3) Integrity of scientific literature and the responsibilities of scientists to associates and the public. Discussion of principles and case studies emphasizing the physical sciences. Not open to those who successfully completed WRIT 335, CHEM 335, or IDNM 305. Does not count toward Chemistry major or minor. Prerequisites: three courses in BIOL, CHEM, GEOL, PHYS, or PHSC, at least two with laboratory; ENGL 102. GenEd I.D.

CHEM 321 DESCRIPTIVE INORGANIC CHEMISTRY (3) The chemistry of simple inorganic substances, particularly reactions in aqueous solution. Periodic properties, relationships of bond types and properties of substances, acid-base theories and reactions, redox and precipitation reactions, coordination compounds, applications of thermodynamics. Syntheses and characterizations of main group and transition metal compounds. Two lecture hours and three laboratory hours. Prerequisites: CHEM 210 or CHEM 213 and CHEM 215, with a grade equivalent of 2.00 or higher recommended.

CHEM 330 ESSENTIALS OF ORGANIC CHEMISTRY (5) A one-semester course in organic chemistry for non-chemistry majors taught on a conceptual basis. Emphasis will be on principles, mechanisms, and modern techniques. Laboratory will include synthesis and identification of organic compounds. Three lecture hours, one recitation hour, and one three-hour laboratory period. Prerequisite: CHEM 102 or CHEM 111, with a grade equivalent of 2.00 or higher recommended.

CHEM 331 ORGANIC CHEMISTRY I (5) Structure, stereochemistry, reactions and their mechanisms, preparation and properties of alkanes, alkenes, alkynes, aromatic compounds, alkyl halides and alcohols. Laboratory techniques include purification, spectroscopic (IR, NMR) and chromatographic (GLPC) methods of identification, and synthesis. Three lecture hours, one hour of laboratory lecture, and one three-hour laboratory period. Prerequisite: CHEM 102 or CHEM 111, with a grade equivalent of 2.00 or higher recommended.

CHEM 332 ORGANIC CHEMISTRY II (5) Structure, reactions and their mechanisms, preparation and properties of alcohols, ethers, aldehydes, ketones, carboxylic acids and their derivatives, amines, carbohydrates, etc. Laboratory emphasizes synthetic techniques and modern qualitative organic analysis using chemical reactions and IR, UV, and NMR. Three lecture hours, one hour of laboratory lecture, and one three-hour laboratory period. Prerequisite: CHEM 331 with a grade equivalent of 2.00 or higher.

CHEM 340 PHYSICAL CHEMISTRY: PRINCIPLES AND APPLICATIONS (3) A survey of physicochemical theory, experimental methods, and applications; thermodynamics, solutions and phases, reaction kinetics, applications of quantum mechanics, and instrumental techniques, illustrating the contributions of physical chemistry to other scientific fields. Three hours lecture/discussion. Prerequisites: CHEM 102 or CHEM 111, with a grade equivalent of 2.00 or higher recommended, MATH 115 or MATH 119, and PHYS 203 or PHYS 211 or PHYS 241 or equivalent. MATH 273 is strongly recommended.

CHEM 341 [542] PHYSICAL CHEMISTRY: THERMODYNAMICS (3) Thermodynamics, phase relations, solution properties, chemical equilibrium and electrochemistry. Three lecture hours. Prerequisites: CHEM 102 or CHEM 111, with a grade equivalent of 2.00 or higher recommended, MATH 274 and PHYS 242 or PHYS 212 or equivalent.

CHEM 342 [543] PHYSICAL CHEMISTRY: STRUCTURE AND KINETICS (3) Introduction to quantum chemistry; atomic and molecular structure, atomic and molecular spectroscopy, introduction to statistical thermodynamics, kinetic theory, and chemical kinetics. Three lecture hours. Prerequisites: CHEM 102 or CHEM 111, with a grade equivalent of 2.00 or higher recommended, MATH 274 and PHYS 242 or PHYS 212 or equivalent.

CHEM 351 INTRODUCTORY BIOCHEMISTRY (3) An overview of the chemistry of proteins, nucleic acids, carbohydrates and lipids. Basic enzyme catalysis and kinetics, biochemical genetics, membrane

structure, bioenergetics, and analytical methods. General principles of metabolism applied to several major pathways. Three lecture hours. Prerequisite: CHEM 330 or CHEM 332, with a grade equivalent of 2.00 or higher recommended in either.

CHEM 356 BIOCHEMISTRY LABORATORY (2) Physical methods in biochemistry including spectrophotometry, centrifugation and ultra-centrifugation, electrophoresis, and chromatography. Isolation and purification of proteins and nucleic acids. Enzyme kinetics and the binding of small molecules to macromolecules. One lecture hour and three laboratory hours. Prerequisites: CHEM 210 or CHEM 213 and CHEM 215, and CHEM 351 (may be taken concurrently), with a grade equivalent of 2.00 or higher recommended in each.

CHEM 361 [562] CHEMICAL AND BACTERIOLOGICAL STUDIES ON WATER POLLUTION (3) Deals mainly with water pollution: causes, effects and cures. Considers details of water. Concerns standards of water purity and variables involved. Demonstration of analytical methods to be given. Case studies and applications are viable approaches to this topic. Three lecture hours. Prerequisites: CHEM 102 or CHEM 111, with a grade equivalent of 2.00 or higher recommended, and BIOL 110.

CHEM 363 [564] CHEMISTRY OF DANGEROUS DRUGS (3) A study of the chemistry, methods of detection, and analysis of narcotics, depressants, stimulants, and hallucinogens. Also, the influence of physicochemical properties upon the pharmacological effects of drug receptor interactions. Historical, forensic, and socio-economic implications associated with drug abuse will also be reviewed. Three lecture hours. Prerequisites: CHEM 330 and CHEM 351 or CHEM 331 and CHEM 332 with a grade equivalent of 2.00 or higher recommended in each. CHEM 210 or CHEM 213 and CHEM 215 recommended.

CHEM 365 [566] POLYMER CHEMISTRY (3) Course will cover the following aspects of polymers: structure, physical properties, methods of preparation, rheology, mechanical properties, degradation and stabilization, application and fabrication, and related contemporary topics. Carbon chain and heterochain polymers will be discussed, and spectroscopic methods of analysis (IR, UV and NMR) will be presented. Three lecture hours. Prerequisites: CHEM 101 or CHEM 110, CHEM 102 or CHEM 111, CHEM 331 and CHEM 332, with a grade equivalent of 2.00 or higher recommended in each.

CHEM 367 [568] FORENSIC CHEMISTRY (3) An introduction to chemical and physical analyses used by a modern crime laboratory in the evaluation of physical evidence encountered in criminal acts. Areas of concentration will include drug analysis, toxicology, forensic serology, explosives analysis, arson examination, firearms and tool marks, and trace evidence. Emphasis will be placed on the value of such examinations as presented by the expert witness in a criminal trial. Three lecture hours. Prerequisites: CHEM 101 or CHEM 110, CHEM 102 or CHEM 111, CHEM 210 or CHEM 213 and CHEM 215, CHEM 330 or CHEM 332, with a grade equivalent of 2.00 or higher recommended in each.

CHEM 372 INTERMEDIATE LABORATORY I (1) Introductory experiments in physical and analytical chemistry applying spectroscopic, calorimetric, and electrochemical techniques to characterize properties of materials and chemical systems. Three laboratory hours. Not open to students who have completed CHEM 343. Prerequisites: CHEM 210 or CHEM 213 and CHEM 215, and CHEM 340 or CHEM 341 or CHEM 342 (either may be taken concurrently), with a grade equivalent of 2.00 or higher recommended in each.

CHEM 373 INTERMEDIATE LABORATORY II (1) A series of experiments in physical and analytical chemistry applying mass spectrometry, NMR spectroscopy, IR spectroscopy, and molecular modeling to problems in molecular structure, chemical composition, reaction kinetics, and reaction equilibrium. Three laboratory hours. Prerequisites: CHEM 332 and CHEM 372, with a grade equivalent of 2.00 or higher recommended in each.

CHEM 374 INTERMEDIATE LABORATORY III (1) A series of experiments involving the theory of instrument design and application of chromatography and atomic spectroscopy to the solution of chemical problems. Three laboratory hours. Prerequisites: CHEM 330 or CHEM 331, and CHEM 372, with a grade equivalent of 2.00 or higher recommended in each.

CHEM 383 [584] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS I (3) Survey of principles and applications of chemistry for secondary school teachers. Lecture:

chemical reactions, stoichiometry, atomic structure, and theories of chemical bonding. Laboratory: an examination of experiments suitable for the secondary school curriculum with emphasis on laboratory safety. Two lecture hours and two hours of laboratory-discussion. Prerequisites: high school algebra, experience as secondary school teacher, and consent of instructor.

CHEM 384 [585] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS II (3) Survey of principles and applications of chemistry for secondary school teachers. Lecture: properties of solutions, acid/base theories, reaction kinetics, chemical equilibrium, thermodynamics, states of matter, and nuclear chemistry. Laboratory: an examination of experiments suitable for the secondary school curriculum with emphasis on laboratory safety. Two lecture hours and two hours of laboratory-discussion. Prerequisites: CHEM 383 or CHEM 584, with a grade equivalent of 2.00 or higher recommended, and consent of instructor.

CHEM 385 [586] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS III (3) Experimental chemistry for secondary school teachers: principles of laboratory measurements, design of experiments, obtaining and interpreting experimental data, laboratory techniques and instrumentation. Two lecture hours and two hours of laboratory-discussion. Prerequisites: CHEM 384 or CHEM 585, with a grade equivalent of 2.00 or higher recommended, and consent of instructor.

CHEM 386 [587] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS IV (3) Survey of principles and applications of physical chemistry for secondary school teachers. Chemical thermodynamics, descriptions of solutions, kinetic theory of gases, reaction rates and mechanisms, and introduction to quantum mechanics. Three lecture hours. Prerequisites: CHEM 385 or CHEM 586, with a grade equivalent of 2.00 or higher recommended, and consent of instructor.

CHEM 387 [588] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS V (3) Organic chemistry for secondary school teachers. Functional groups, reaction mechanisms, natural products. Simple and complex techniques of purification, analysis, and synthesis. Three lecture hours and one hour of laboratory. Prerequisites: CHEM 386 or CHEM 587, with a grade equivalent of 2.00 or higher recommended, and consent of instructor.

CHEM 388 [589] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS VI (3) Principles and applications of biochemistry for secondary school teachers. Structures and functions of biological molecules, enzymes, metabolic energies, and nucleic acids. Three lecture hours. Prerequisites: CHEM 387 or CHEM 588, with a grade equivalent of 2.00 or higher recommended, and consent of instructor.

CHEM 389 [590] MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS VII (3) Modern instrumental methods for secondary school teachers. An integrated laboratory-lecture course discussing four major instrumental methods and their uses in solving typical chemical problems: spectrophotometry, nuclear magnetic resonance spectroscopy, mass spectrometry, and chromatography. Two lecture hours and two hours of laboratory-discussion; short field trips may be required. Prerequisites: CHEM 388 or CHEM 589, with a grade equivalent of 2.00 or higher recommended, and consent of instructor.

CHEM 391-394 [501-504] SPECIAL PROBLEMS IN CHEMISTRY (1-3) A laboratory or library problem in chemistry to be selected by the student in consultation with the instructor. Students are required to submit a written report. May be repeated for a maximum of 6 credits. Prerequisite: consent of instructor.

CHEM 395 INTERNSHIP IN CHEMISTRY (1-3) Students will be given credit in this cooperative education program for approved experience in chemistry. A written final report will be submitted by students. Graded S/U. May be repeated for credit as CHEM 396, etc., for a maximum of 6 credits. Prerequisites: a grade equivalent of 2.00 or higher in CHEM 332 and either CHEM 213 and CHEM 215 or CHEM 210, and consent of instructor.

CHEM 397 MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS VIII (3) Theory and application of classical and modern methods of chemical analysis for secondary school teachers. Two lecture hours and two hours of laboratory. Prerequisites: CHEM 385 or CHEM 586 with a grade equivalent of 2.00 or higher recommended, and consent of instructor.

CHEM 398 MODERN CHEMISTRY FOR TEACHERS: PRINCIPLES AND APPLICATIONS IX (3) Theory and application of methods of

experimental biochemistry for secondary school teachers. Two lecture hours and two hours of laboratory. Prerequisites: CHEM 388 or CHEM 589 with a grade equivalent of 2.00 or higher recommended, and consent of instructor.

CHEM 401 [500] SEMINAR IN CHEMISTRY (1) An introduction to chemical literature. Attendance at all seminars and presentation of seminars to the department on topics selected by the Chemistry faculty or selected by the student and approved by the faculty. One and one-half hour seminar period. Prerequisites: CHEM 213, CHEM 215, CHEM 332, with a grade equivalent of 2.00 or higher in each; corequisite: CHEM 341 or CHEM 342.

CHEM 413 THEORY OF INSTRUMENTAL ANALYSIS (3) A discussion of spectroscopic, chromatographic, and electrochemical systems, their design and their application to chemical analysis. Three lecture hours. Not open to those who successfully completed CHEM 411. Prerequisites: CHEM 213, CHEM 215 and CHEM 341 or CHEM 342, with a grade equivalent of 2.00 or higher recommended in each.

CHEM 417 [518] ADVANCED ANALYTICAL CHEMISTRY (3) A course dealing with the theory and application of more recent and specialized techniques of chemical separation and analysis. Three lecture hours. Prerequisite: CHEM 413 or CHEM 411, with a grade equivalent of 2.00 or higher recommended.

CHEM 424 INORGANIC CHEMISTRY LABORATORY (2) Techniques of synthesizing and characterizing inorganic compounds. Types of compounds will include coordination compounds, non-metallic compounds, volatile hydrides, and organometallics. Synthetic techniques will include inert atmosphere techniques, vacuum line, non-aqueous solvents, high temperature synthesis, etc. One lecture hour and one three-hour laboratory period. Prerequisites: CHEM 213, CHEM 215, CHEM 332 and CHEM 425, with a grade equivalent of 2.00 or higher recommended in each (CHEM 425 may be taken concurrently).

CHEM 425 ADVANCED INORGANIC CHEMISTRY (2) Valence-bond and molecular orbital theories of bonding; bonding in solids; symmetry and spectroscopy; ligand field theory and reactions of coordination compounds; introduction to organometallic compounds; special topics. Two lecture hours. Not open to those who successfully completed CHEM 422 or CHEM 423. Prerequisites: CHEM 321, CHEM 332, CHEM 341 or CHEM 342, with a grade equivalent of 2.00 or higher recommended in each.

CHEM 431 [534] ADVANCED ORGANIC CHEMISTRY LABORATORY (2) The design of organic synthesis, advanced laboratory techniques, and determination of structure by chemical and spectroscopic means. One lecture hour and three laboratory hours. Prerequisites: CHEM 332, with a grade equivalent of 2.00 or higher recommended, and consent of instructor.

CHEM 432 [535] ADVANCED ORGANIC CHEMISTRY (3) Advanced topics will include molecular orbital theory, pericyclic reactions, photochemistry, and determination of reaction mechanisms by kinetics, linear free energy relationships, acid-base properties, acid-base catalysis, detection of intermediates, stereochemistry, etc. Three lecture hours. Prerequisites: CHEM 332 and CHEM 342, with a grade equivalent of 2.00 or higher recommended in each; CHEM 341 is recommended.

CHEM 441 [546] ADVANCED PHYSICAL CHEMISTRY (3) Two topics in the area of Physical Chemistry to be covered in depth. Topics will be selected by the instructor after consultation with the students. Examples of possible topics are formal wave mechanics, bonding, solid state, liquid state, surface chemistry, colloids, high polymers, rheology, ionic conductivity, electrochemical cells, scattering phenomena, statistical thermodynamics. Three lecture hours. Prerequisites: CHEM 341 and CHEM 342, with a grade equivalent of 2.00 or higher recommended in each.

CHEM 452 [554] ADVANCED BIOCHEMISTRY (3) An in-depth exploration of several biochemical topics, such as thermodynamics of macromolecular conformation, enzyme catalytic mechanisms, membrane biophysics, and metabolic regulation. Three lecture hours. Prerequisites: CHEM 332, CHEM 341, CHEM 342, and CHEM 351, with a grade equivalent of 2.00 or higher recommended in each.

CHEM 454 INSTRUMENTAL METHODS IN BIOCHEMISTRY (2) Biochemical laboratory projects using infrared spectroscopy, nuclear magnetic resonance spectrometry, high performance liquid chromatography, mass spectrometry, electrophoresis, and other techniques. One lecture hour and three laboratory hours. Prerequisites: CHEM 356, CHEM 413, and CHEM 452, with a

grade equivalent of 2.00 or higher recommended in each (CHEM 452 may be taken concurrently).

CHEM 475 INTERMEDIATE LABORATORY IV (1) Experiments in physical and analytical electrochemistry applying potentiometric and voltammetric techniques to study the thermodynamics and kinetics of electrochemical reactions; their application to solution of analytical problems. Three laboratory hours. Prerequisites: CHEM 341, CHEM 413, and CHEM 373 or CHEM 374, with a grade equivalent of 2.00 or higher recommended in each.

CHEM 491-494 [505-508] INTRODUCTION TO RESEARCH IN CHEMISTRY (1-3) An original experimental or theoretical investigation. May be repeated for credit as CHEM 492, etc. CHEM 491 may not be taken in the student's final semester. Formal written report required. Evaluation by instructor and student-selected members of faculty. Graded S/U. Prerequisite: consent of instructor.

CHINESE (CHNS)

Lower Division

CHNS 101-102 ELEMENTARY MODERN CHINESE I, II (3,3) An introduction to standard modern Chinese (Mandarin). Emphasis is on reading and writing of Chinese. Pin Yin, the phonetic system of pronouncing Chinese words, is introduced. Text, sound tape and vocabulary cards. GenEd II.D.

CHNS 201-202 CHINESE INTERMEDIATE I, II (3,3) Thorough review of Elementary Chinese; vocabulary building; conversational fluency and prose composition; translation; reading and discussion of selected outside reading (newspapers, magazines, Chinese literature). GenEd II.D.

Upper Division

CHNS 301-302 CHINESE COMPOSITION AND CONVERSATION I, II (3,3) Intensive exercises in Chinese conversation and composition beyond the intermediate level. Conducted in Chinese. Prerequisite: CHNS 201-202 or equivalent. GenEd II.D.

CHNS 491-492 DIRECTED READINGS IN CHINESE I-II (1-3, 1-3) Intensive reading under the supervision of a departmental adviser. Conducted in Chinese. Prerequisites: CHNS 301-302; consent of department chair.

CHNS 494 CHINESE STUDY ABROAD (3-16) The study of Chinese language, culture, and/or literature at a university in China, Taiwan or Hong Kong. Available fall/spring/summer. (See department chair and Office of International Education.) Prerequisites: consent of the Modern Languages Department program coordinator and department chair.

COLLEGE OF BUSINESS AND ECONOMICS (CBEC)

CBEC 101 INTRODUCTION TO BUSINESS (3) Problems of organization dynamics and behavior of people, within and outside the business, and with which management must deal in attaining the objectives of the organization. CBEC is not acceptable for major credit in the College of Business and Economics programs. Not open to Business or Accounting majors who have completed three or more upper-level courses in the major.

CBEC 301 BUSINESS CORNERSTONE (3) Foundation course for developing knowledge, skills and attitudes (KSAs); problem-solving, self-assessment, team work, computer technology and communication for future courses and careers. Recommended to be taken after successful completion of the Advanced Composition GenEd requirement (I.D). Required of all Business and Economics students. Prerequisites: completion of College of Business lower-level prerequisites with a grade equivalent of 2.00 or higher. Special permit required.

CBEC 460 PROFESSIONAL EXPERIENCE (3) Application of business knowledge, skills and attitudes (KSAs) through professional responsibilities in employment, internship or comparable experience. Prerequisites: Senior status, completion of 18 CBE upper-level credits including CBEC 301, MNGT 361, MKTG 341 and FIN 331. Special permit required.

COMMUNICATION SCIENCES AND DISORDERS (SPPA) See under "S"

COMMUNICATION STUDIES (COMM)

Lower Division

COMM 115 INTRODUCTION TO INTERPERSONAL COMMUNICATION (3) Face-to-face communication skills in various contexts.

COMM 131 FUNDAMENTALS OF SPEECH COMMUNICATION (3) Perspectives of rhetoric and public speaking, investigating contemporary American experiences, delivering and critiquing speeches. GenEd II.B.3.

COMM 132 HONORS FUNDAMENTALS OF SPEECH COMMUNICATION (3) Instruction in various kinds of public speaking (e.g., informative, persuasive, introductory, and impromptu); doing research, developing ideas with evidence, preparing outlines, delivering and critiquing speeches with emphasis on rhetorical criticism and ethical issues in speech communication. GenEd II.B.3.

COMM 211 RHETORICAL THEORY AND CRITICISM (3) Theory and application of human communication as influence. Emphasizing contemporary works within the rhetorical tradition in the field of communication. Prerequisites: COMM 131 or COMM 132, ENGL 102 or ENGL 190.

COMM 216 GROUP DISCUSSION (3) Theory and methods of group decision-making in face-to-face and electronic contexts.

COMM 249-250 SPEECH AND DEBATE PROGRAM I, II (1.5, 1.5) Practical skill development and participation within Towson's Speech and Debate Program: preparation, practice and competition in debate and/or individual speaking events; researching controversial issues, preparing and delivering speeches, participating in on-campus and intercollegiate events.

Upper Division

COMM 301 NONVERBAL COMMUNICATION (3) Examination of the elements of nonverbal communication: environment, personal space, physical appearance, body movement, gestures, touching behavior, facial expression, and vocal cues. Course will investigate the effects of these on interpersonal and public communication. Prerequisite: COMM 131 or consent of instructor.

COMM 303 ADVANCED PUBLIC SPEAKING (3) Principles and application of evidence, composition, organization, analysis, and criticism. Manuscript, persuasive, and impromptu speaking. Prerequisite: COMM 131 or COMM 132.

COMM 304 PERSUASION (3) Theory and practice of linguistic and symbolic persuasion; applications of rhetorical principles in social sciences and formal and informal communication; analysis of rhetoric through discussion. Prerequisite: junior/senior standing or consent of instructor.

COMM 315 BUSINESS AND PROFESSIONAL COMMUNICATION (3) Professional interview and other dyadic encounters, curriculum vitae preparation, and exploration of communication in business structures: agendas, briefings, meetings, conferences, and strategies of attributional and communicative techniques. Prerequisite: COMM 131.

COMM 321 INTERPERSONAL COMMUNICATION (3) Examination and application of core concepts, advanced theories, and current research. Prerequisites: COMM 115; COMM 131.

COMM 331 ADVOCACY AND ARGUMENT (3) Essentials of argumentation; research, analysis, evidence, reasoning, case construction, and refutation. Applications in fact, value, and public policy settings. Prerequisite: COMM 131 or consent of instructor.

COMM 349-350 SPEECH AND DEBATE PROGRAM III, IV (1.5, 1.5) Practical skill development and participation within Towson's Speech and Debate Program: preparation, practice and competition in debate and/or individual speaking events, researching controversial issues, preparing and delivering speeches, participating in on-campus and intercollegiate events.

COMM 351 SPECIAL TOPICS IN SPEECH AND DEBATE (3) In-depth study of selected areas dependent on student and faculty interest. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisite: COMM 249.

COMM 379 INTERCULTURAL COMMUNICATION (3) Principles, research and applications of cross-cultural discourse. Prerequisite: junior/senior standing or consent of instructor. GenEd II.B.3.

COMM 418 [518] COMMUNICATION TRAINING AND DEVELOPMENT (3) Instructional strategies for implementing objectives,

specifying and evaluating results. Prerequisites: COMM 115 and COMM 216 or COMM 331.

COMM 419 [519] ORGANIZATIONAL COMMUNICATION (3) Superior-subordinate communication, message dissemination, information overload, trust levels, and work group interaction. Prerequisite: COMM 131.

COMM 420 [520] COMMUNICATION IN THE LEGAL PROCESS (3) Focus on communication questions and skills by lawyers, judges, litigants and jurors in criminal and civil justice. Survey of research related to verbal and nonverbal aspects of communication as they apply to the legal concerns of interview, negotiation and litigation. Prerequisite: junior/senior standing.

COMM 422 [522] CONFERENCE AND MEETING MANAGEMENT (3) Communicative details in preparing for and conducting events. Prerequisite: COMM 419 (may be taken concurrently).

COMM 470 SPECIAL TOPICS IN COMMUNICATION (3) In-depth study of a selected area dependent on student and faculty interest. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisites: 18 credits of COMM or MCOM courses.

COMM 480 COMMUNICATION RESEARCH (3) Descriptive methods, data analysis, critical and ethical evaluation of communication studies. Prerequisites: 18 credits of COMM or MCOM courses.

COMM 490 INTERNSHIP IN COMMUNICATION STUDIES (1-6) Practical field experiences. Under faculty and I/CE supervision, the student works as an intern with a working professional in some field of communication. Graded S/U. May be repeated for a maximum of 6 credits. Prerequisite: junior/senior standing. Minimum overall GPA of 2.75 and 3.00 in the major; completion of appropriate courses determined by the department. Please check with the I/CE office for specifics.

COMM 495 [795] INDEPENDENT STUDY IN COMMUNICATION STUDIES (1-6) Directed study through readings, projects, papers, or seminars. May be repeated for a maximum of 6 credits. Prerequisites: junior/senior standing and consent of instructor.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

COMPUTER INFORMATION SYSTEMS (CIS)

Lower Division

CIS 212 INTRODUCTION TO BUSINESS PROGRAMMING (3) A study of computer programming for business applications using a language such as COBOL. Students will design, implement, test, and document programs in application areas such as payroll, accounting, inventory, and file maintenance. Not open to those who successfully completed COBOL programming. Prerequisite: COSC 111 or CIS 115 or programming experience.

CIS 239 COMPUTER SYSTEMS ARCHITECTURE (3) Internal representation of data and instruction, memory organization, microprogramming, multi-level machines, microcomputers, supercomputers, and parallel computers. Prerequisites: COSC 236 and MATH 263.

Upper Division

CIS 334 DATA ORGANIZATION (3) Information abstraction, representation, and organization, including realization of data and the logic to manipulate it, concepts of levels of abstraction, and information organization, particularly within organization. Not open to students who successfully completed COSC 336. Prerequisite: COSC 237.

CIS 335 ADVANCED BUSINESS PROGRAMMING (3) Advanced programming concepts for business applications. Topics covered include the report writer feature, table handling, sorting, direct access files, program segmentation, and job control language. Students work on several case studies and programming projects. Prerequisite: CIS 212.

CIS 341 ADVANCED CONCEPTS OF INFORMATION SYSTEMS (3) Relationships among information systems, objectives and systems structure, covering human aspects, systems models, and applications. Prerequisites: COSC 237 and COSC 111 or CIS 115.

CIS 407 SYSTEMS ANALYSIS (3) Analysis of existing information processing systems including systems life cycle, interactive refinement of analysis and design, information gathering and logical specifications. Credit CANNOT be earned for both CIS 407 and CIS 411. Prerequisite: CIS 341.

CIS 409 SYSTEMS DESIGN (3) Design of information processing systems (IPS) including system life cycle emphasizing design and implementative review of logical systems, design of physical systems, implementation; evaluation and maintenance. Credit CANNOT be earned for both CIS 409 and CIS 411. Prerequisite: CIS 407.

CIS 411 SYSTEMS AND DESIGN (3) Guides students through the stages of the evolution of data processing systems, including analyses of present information flow, system specifications, equipment selection, and implementation of the system to provide an understanding of the skills and knowledge needed for the effective use of data processing equipment in meeting information needs. Prerequisites: CIS 334 and an additional upper-division CIS course.

CIS 425 DECISION SUPPORT SYSTEMS (3) Computer-based information systems for managerial decision-making. Includes mathematical modeling and decision support systems, systems architecture, DDS development tools, organization issues of decision support, multiparticipant DSS, and integration with other information systems. Prerequisites: CIS 341 and MATH 231.

CIS 433 SPECIAL TOPICS IN COMPUTER INFORMATION SYSTEMS (1-3) Studies in selected areas of computer information systems. May be repeated for a maximum of 3 credits. Prerequisites: 9 hours of Computer Information Science and consent of instructor.

CIS 435 HUMAN-COMPUTER INTERACTION (3) Effective, productive information systems, including interactive computer systems, input and output devices, screen layouts, machine design, health issues, organizational impacts, and computers and the disabled. Prerequisite: CIS 341.

CIS 440 SYSTEMS DEVELOPMENT FOR ELECTRONIC COMMERCE (3) Developing an organization's electronic commerce technical infrastructure, hardware and software specification issues, strategic development of computer-mediated business and tools, policy and societal impact issues as well as future directions in electronic commerce. Prerequisite: CIS 407 or COSC 411.

CIS 475 ANALYSIS AND DESIGN FOR WEB SITES (3) Conceptual design of the Web page interface, HTML, usability testing, implementation, and management. Credit cannot be earned for both COSC 484 and this course. Prerequisite: CIS 407 or COSC 411.

CIS 479 SOFTWARE PROJECT MANAGEMENT (3) Technical and behavioral aspects of project management: concepts, needs identification, software project manager, software teams, software project organizations, project communications, software project planning, scheduling, control, associated costs, using management software tools. Prerequisite: CIS 341.

COMPUTER SCIENCE (COSC)

Lower Division

COSC 109 COMPUTERS AND CREATIVITY (3) Creative activities involving symbolic manipulation and computer graphics; animation, dynamic story telling, computer music, visual effects, Web publishing, computer games, artwork, and multimedia. Additional laboratory time required. GenEd I.E.

COSC 111 INFORMATION AND TECHNOLOGY FOR BUSINESS (3) Retrieve, process, classify, sort and evaluate data and information. Problem solving techniques, creative thinking skills, communication skills, team building, and professional ethics. Laboratories covering the Internet, spreadsheets and databases. Additional laboratory time required. Students cannot earn credit for both this course and IDNM 101. GenEd I.B.

COSC 112 HONORS INFORMATION AND TECHNOLOGY FOR BUSINESS (3) Introduction to the use of information technology to retrieve, filter, process, classify, sort and evaluate data and information in a business environment. Problem solving, creative thinking, effective communication, team building, and professional ethics within an information systems framework. Labs covering library information systems, the Internet, word processing, presentation software, spreadsheets, and databases will be emphasized. Students cannot earn credit for both this course and IDNM 101. Prerequisite: approval of Honors College. GenEd I.B.

COSC 119 USING INFORMATION EFFECTIVELY IN THE COMPUTING SCIENCES (3) Identifying, retrieving, filtering, storing, processing, classifying, sorting, evaluating and presenting data and information in a technology and computing environment. Emphasis will be placed on problem-solving techniques with the computing field. Team-based case studies will be utilized and hands-on labs will be an important component of the course. Two hours lecture and one hour lecture in the lab.

- COSC 165 VISUAL BASIC (3)** A first course in computing to provide students with the requisite knowledge and experience to use computers effectively in the solution of numeric and non-numeric problems. Two lecture hours and two laboratory hours. Prerequisite: two years of high school algebra or equivalent.
- COSC 175 GENERAL COMPUTER SCIENCE (4)** Computer systems overview, algorithm development, data presentation, software design and testing methodologies, and brief overview of advanced topics.
- COSC 236 INTRODUCTION TO COMPUTER SCIENCE I (4)** Introduction to structured problem solving, algorithm development, and computer programming with a modern high-level structured programming language. Three lecture hours and two laboratory hours. Prerequisite: satisfactory completion of a programming course in a high-level structured language and MATH 119 or equivalent.
- COSC 237 INTRODUCTION TO COMPUTER SCIENCE II (4)** Introduction to data representation, data structures and their implementations, computer systems concepts, application of data structures in sort and search algorithms, and the software development process. Prerequisite: COSC 236. Corequisite: MATH 211 or MATH 273.
- COSC 265 ADVANCED VISUAL BASIC (3)** Concepts, tools and techniques of software developing using an event driven language that supports a graphical user interface and an object oriented environment. Two lecture hours and two laboratory hours. Prerequisites: COSC 111 and COSC 165 or permission of the instructor.
- COSC 280 ASSEMBLY LANGUAGE AND COMPUTER ARCHITECTURE (3)** Principles and concepts of assembly language programming with an introduction to computer architecture, internal representation of instructions and data, addressing techniques, subprogramming, machine languages, macros, input/output, program linkage. Prerequisites: COSC 236 and MATH 263. Corequisite: COSC 237.

Upper Division

- COSC 311 DIGITAL TECHNOLOGIES IN SOCIETY (3)** Foundations and impacts of computing and digital technologies, including history, applications, and societal impacts. Prerequisite: junior status and two science courses or one math course and one science course. GenEd II.A.2.
- COSC 321 COMPUTERIZATION AND ITS IMPACTS (3)** Computer technology and its social and economic impacts on organizations and individuals. Prerequisites: junior/senior status and completion of two science courses or one math course and one science course. GenEd II.A.2.
- COSC 326 THE MATHEMATICS OF INFORMATION SCIENCE (3)** Encoding information introducing metrics, isometries, equivalence relations, modular arithmetic, base 2 arithmetic, matrix algebra, probability and combinatorics, including codes, bar codes, check digits, internal computer representations of information and logic gates. Students cannot earn credit for both MATH 326 and COSC 326. (No credit toward a Math major or minor.) Prerequisite: MATH 207 or permission of either the MATH or COSC department.
- COSC 336 DATA STRUCTURES AND ALGORITHM ANALYSIS (4)** Discussion of data and type abstractions, a number of different data structures and the tradeoffs involved in the use of such data structures, the analysis of algorithms, sort and search algorithms, and a discussion of file organization and file access methods. Prerequisite: COSC 237. Corequisite: MATH 274.
- COSC 338 COMPUTER ORGANIZATION AND ARCHITECTURE (4)** Principles of computer organizations and architecture emphasizing the integration of the functional components of the machine. Topics include memory organization, microprogramming, multi-level machines, comparative computer systems, introduction to supercomputers and parallel computers, evolution and future trends of computer organization. Three hours per week of laboratory work required. Prerequisite: COSC 280.
- COSC 350 DATA COMMUNICATIONS AND NETWORKING (3)** Networks, topologies, architectures and protocols, circuit and packet switching, TCP/IP suite, network management and security, and network programming. Prerequisites: either COSC 336 and 338 or CIS 239 and CIS 334.

- COSC 353 PROGRAMMING METHODOLOGIES IN UNIX AND C (3)** Basic organization, major components, and important utilities of the UNIX system, including the C programming language. Prerequisites: COSC 237 and COSC 280.
- COSC 367 DISCRETE STRUCTURES (3)** The basic mathematical structures used in computer science. Covers boolean algebra, graph theory, semigroups, grammar and automata, showing how these structures apply to heuristic programming, networks and computer construction. Prerequisite: COSC 336.
- COSC 397 INTERNSHIP IN COMPUTER SCIENCE (3)** Gives Computer Science and Computer Information Systems students the opportunity to be involved in a computing facility. Each student will be assigned to a specific facility associated with a local business or industry and will be supervised by the appropriate supervisor of the computing facility and by the faculty member in charge of the course. May be repeated for a maximum of 6 credits. Only 3 credits can be applied to the major. Prerequisites: 6 hours of upper-division Computer Science or Computer Information Systems courses and consent of instructor.
- COSC 412 SOFTWARE ENGINEERING (3)** Methodology of designing and programming for a wide area of applications with a high degree of modifiability, efficiency, reliability and understanding. Prerequisites: CIS 334 or CIS 335 or COSC 336 and one 400-level COSC/CIS course.
- COSC 415 COMPILER DESIGN (3)** Principles, techniques, algorithms and structures involved in the design and construction of compilers. Topics include lexical analysis, formal grammars, syntax, and semantics analysis, error recovery, code generation, and optimization. Prerequisite: COSC 336.
- COSC 417 INTRODUCTION TO THE THEORY OF COMPUTING (3)** A general introduction to the theory of computation, including finite automata, compatibility, formal languages and their relation to automata, algorithms, and algorithmic complexity. The major emphasis will be on developing formal descriptions of computers and computational processes, and practical implications of theoretical results. Prerequisite: COSC 367 or MATH 361.
- COSC 418 ETHICAL AND SOCIETAL CONCERNS OF COMPUTER SCIENTISTS (3)** Ethical questions and societal concerns related to the widespread uses of computers and the resulting responsibilities of computer scientists. Prerequisites: two science courses or one math course and one science course. GenEd II.A.2.
- COSC 431 SELECTED TOPICS IN COMPUTER SCIENCE (1-3)** Independent studies in selected areas of computer science. A maximum of 4 credits may be earned in selected topics. Prerequisite: consent of instructor and 9 hours of computer science.
- COSC 438 PARALLEL/VECTOR COMPUTER ARCHITECTURES AND APPLICATIONS (3)** Parallel/vector processing vectorization techniques, machine architectures, system controls, fast algorithms, supercomputers applications, programming requirements, and simulated application designs. Prerequisite: COSC 338.
- COSC 439 OPERATING SYSTEMS (3)** Operating systems as resource manager with emphasis on file processor, memory, and device management and processes. Design and implementation of a simulated multiprogramming operating system. Prerequisites: COSC 336 and MATH 330.
- COSC 441 COMPUTER PERFORMANCE EVALUATION (3)** Computer system performance evaluation methodologies, techniques and tools, including different types of monitors as a measurement tool, work-load characterization, important performance indices, analytic modeling with particular emphasis on the application of the operational queuing network modeling techniques to performance analysis, and technical aspects of computer selection. Prerequisites: MATH 274 and Pre or Co-requisite: COSC 439.
- COSC 455 PROGRAMMING LANGUAGES: DESIGN AND IMPLEMENTATION (3)** Underlying concepts in high-level programming languages and techniques for their implementation, a survey of a selected group of such languages along with a discussion of the interrelationship between programming and programming languages. Prerequisite: COSC 336.
- COSC 457 DATABASE MANAGEMENT SYSTEMS (3)** Data models and sublanguages; security and integrity problems; functions of the database administrator; implementation and use of a database management system; a comparison of widely used DBMS packages. Prerequisite: CIS 334 or COSC 336.
- COSC 459 COMPUTER SIMULATION AND MODELING (3)** Simulation models and languages, data collection and output

analysis, random number generation and Monte Carlo integration, model verification and validation, variance reduction techniques, optimization, the implementation and use of simulation techniques in problem solving. Prerequisites: COSC 336 and MATH 330 or CIS 334 and MATH 231.

COSC 461 ARTIFICIAL INTELLIGENCE (3) A survey of the problems and techniques involved in producing or modeling intelligence in computers. Particular emphasis will be placed on representation of knowledge and basic paradigms of problem solving. Topics include game playing, theorem proving, natural language, and learning systems. Prerequisite: COSC 336 or CIS 334.

COSC 471 COMPUTER GRAPHICS (3) An introduction to the field of computer generated and/or displayed graphics data. Covers the topics of representation, transformations, curve and 3-D problems, graphics, hardware, and programming considerations. Prerequisite: COSC 336 or CIS 334.

COSC 480 SENIOR SEMINAR (1) Prepares students to deal as professionals with the social and ethical issues in the computing sciences and make them aware of the broad applications of computers and the implications of these applications. Students majoring in Computer Science must take either this course or COSC 418, but not both. Prerequisite: senior standing in Computer Science.

COSC 483 DESIGN AND ANALYSIS OF ALGORITHMS (3) Algorithm design methods, such as heuristics, backtrack programming, branch and bound, recursion, simulation, divide-and-conquer, balancing, and dynamic programming. Efficiency of algorithms--NP-complete problems. Prerequisite: COSC 336.

COSC 484 WEB-BASED PROGRAMMING (3) Applications executing on a client-server system emphasizing client side. Technologies include HTTP protocol, dynamic HTML, common gateway interface (CGI) programming and Java applets. Prerequisite: CIS 334 or COSC 336.

COSC 493 DIRECTED READINGS IN COMPUTER SCIENCE (HONORS) (3) Individual readings and background research, under the direction of a faculty member, in preparation for writing an honors thesis (restricted to students in the departmental honors program). Prerequisite: admission to the departmental honors program.

COSC 495 INDEPENDENT STUDY IN COMPUTER SCIENCE (1-3) Directed study in selected areas of Computer Science for which there is no regular course offered. The use of a proposal and well-defined objectives as well as a formal paper or project report are required. Prerequisites: senior standing in Computer Science and consent of instructor.

COSC 499 HONORS THESIS IN COMPUTER SCIENCE (3-6) Writing of an honors thesis based on individual research (open only to advanced honors candidates). Prerequisite: permission of Departmental Honors Committee.

CULTURAL STUDIES (CLST)

Lower Division

CLST 201 INTRODUCTION TO CULTURAL STUDIES (3) Culture's effect on science, identity, and behavior, and on what we hear, see, value and ignore. GenEd II.B.3.

Upper Division

CLST 301 PERSPECTIVES IN CULTURAL STUDIES (3) Semiotic, linguistic, material and psychoanalytical approaches to cultural studies and criticism. Prerequisite: CLST 201.

CLST 303 IDENTITY AND CULTURE (3) Formation and development of class, racial, gender and sexual identity. Prerequisite: CLST 201.

CLST 305 TEXTUALITY AND CULTURE (3) Interaction of texts and culture. Topics include literacy, genres, semiotics, reader response, non-print media, and textual analysis. Prerequisite: CLST 201.

CLST 307 VISUAL CULTURE (3) Explores how images are conditioned by cultural attitudes toward race, ethnicity, sex, sexual orientation, and class. Prerequisite: CLST 201.

CLST 309 PERFORMING CULTURE (3) Various manifestations of performance and self in culture and society examined from a humanistic perspective through literature, film and other media. Prerequisite: CLST 201.

CLST 311 SCIENCE, TECHNOLOGY AND CULTURE (3) How science and technology interact with culture. Prerequisite: CLST 201. GenEd II.A.2.

CLST 370-375 TOPICS IN CULTURAL STUDIES (3) Topics will vary from semester to semester. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisite: CLST 201.

DANCE (DANC)

Lower Division

DANC 101 THE ALEXANDER TECHNIQUE (3) An examination of the psychophysical pressures of contemporary American life and the application of the Alexander Technique as a method to investigate the issues of mind/body disciplines and alleviate tension and stress. May be repeated for a maximum of 6 credits. GenEd II.B.3.

DANC 105 MOVEMENT SKILLS ENHANCEMENT FOR MEN (3) Using movement techniques to improve athletic and movement skills. GenEd II.B.3.

DANC 106 FUNDAMENTALS OF DANCE MOVEMENT (3) Floor and standing work to develop upper/lower connectivity, increased rotation, efficient movement patterns, and proper support for dance movement. May be repeated for a maximum of 9 credits. GenEd II.B.3.

DANC 109 JAZZ DANCE I (2) American jazz dance as traced historically through movement from Afro-Caribbean and vaudeville forms to Broadway show styles from the 1920s through the 1950s. May be repeated for a maximum of 6 credits.

DANC 111 TAP DANCE I (2) A beginning study of the technical fundamentals of tap dance. Includes basic one and two sound movements performed at the barre and simple rhythmic combinations in center. Also includes time steps and simple turns. May be repeated for a maximum of 6 credits.

DANC 123 INTRODUCTION TO DANCE: EUROPEAN COURT (3) Western concert dance as a cultural phenomenon, methods of training, evolution of dance aesthetics, and building a world view through movement. GenEd II.C.1.

DANC 124 BALLET FOR NON-MAJORS (2) Classical ballet class with emphasis on placement and alignment of the body, turn-out, footwork, barre work, simple allegro movements, adagio, and grande allegro movements required in the establishment of a basic technical foundation. May be repeated for a maximum of 6 credits. Prerequisite: DANC 123, previous ballet training, or consent of instructor.

DANCE 125 INTRODUCTION TO DANCE: OVERVIEW (3) Western concert dance as a cultural phenomenon, methods of training, evolution of dance aesthetics, and building a world view through movement. GenEd II.C.1.

DANC 127 INTRODUCTION TO DANCE: AMERICAN EXPERIENCE (3) American concert modern dance as a cultural phenomenon, methods of training, evolution of dance aesthetics, and building a world view through movement. Field experiences may be required.

DANC 128 MODERN DANCE FOR NON-MAJORS (3) Course work in modern dance technique as derived in part from principles of American founders of modern dance. May be repeated for a maximum of 6 credits. Prerequisites: DANC 125 or DANC 127 or previous modern dance training, or consent of instructor.

DANC 133 HONORS INTRODUCTION TO DANCE: EUROPEAN COURT (3) European court concert dance as a cultural phenomenon, methods of training, evolution of ballet aesthetics, and building a world view through movement. Field experiences may be required.

DANC 201 DEVELOPMENTAL MOVEMENT (2) Movement-based experiences in developmental stages of children, including relationships with objects and other people, motor actions, personality development and organization in space.

DANC 209 JAZZ DANCE II (2) A continuation of Broadway show from the early 1960s to the present day. Includes study of contemporary jazz technique with emphasis on rock, funky, lyric, and percussive movement. May be repeated for a maximum of 6 credits. Prerequisites: DANC 109 or consent of instructor.

DANC 211 TAP II (2) A continued study of tap dance including complex rhythms, tempi, barre, and center work. New movements include wings, trenches, riffs, and advanced turns. May be repeated for a maximum of 6 credits. Prerequisite: DANC 111.

DANC 223-224 LEVEL I BALLET (2) Elementary classical ballet technique: classical form, static and dynamic alignment, rotation, weight shift, breath support, and level change with application to classical ballet vocabulary. May be repeated for a maximum of 6 credits. Prerequisite: dance majors only, special permit required.

- DANC 227-228 LEVEL I MODERN (2)** Study of elementary modern dance technique: level change, weight shift, dynamic alignment, breath support and expression, and application of modern dance vocabulary. May be repeated for a maximum of 6 credits. Prerequisite: dance majors only, special permit required.
- DANC 235 DANCE COMPOSITION I (3)** Introduction to the creative process through improvisation activities: self exploration, group interaction, relating musical tone and character to the development of thematic and abstract movement invention. GenEd I.E.
- DANC 251 METHODS OF TEACHING DANCE (3)** Student-directed approach to the teaching of creative movement to all age levels, emphasizing the elementary school age child. Includes developmental perspective, the movement elements, lesson-building, unit conceptualization, observation and simulation. Prerequisite: DANC 201.
- DANC 263 DANCE DESIGN AND PRODUCTION (3)** Costume, lighting, make-up, management, scenery, safety, sound and rigging techniques and practices. Not open to those who successfully completed THEA 263. Prerequisite: Dance major.
- DANC 310 JAZZ DANCE III (2)** A continued study of contemporary jazz technique with emphasis on performance of styles used on the concert stage, television and motion pictures. May be repeated for a maximum of 6 credits. Prerequisite: DANC 209.
- DANC 321 HISTORY OF THE DANCE (3)** An overview of dance history from its tribal beginnings to present day. Emphasis on writing skills. Prerequisites: junior/senior standing; ENGL 102 or 190. GenEd I.D.
- DANC 323-324 LEVEL II BALLET (3)** Continued study of classical ballet technique: emphasis on exploring and embodying a particular world view, including intermediate level enchainments, shifting weight; physically and musically connecting movement sequences; sequencing combinations designed to develop both strength and flexibility. May be repeated for a maximum of 9 credits. Prerequisite: dance majors only, special permit required.
- DANC 327-328 LEVEL II MODERN (3)** Continued study of intermediate modern dance technique: emphasis on exploring and embodying a particular world view, including expanded movement vocabulary involving sequences of greater complexity — kinesthetically, spatially and musically. May be repeated for a maximum of 9 credits. Prerequisite: Dance majors only, special permit required.
- DANC 335 DANCE COMPOSITION II (3)** Solo and duet choreography. Graded S/U. Prerequisites: DANC 235, Dance majors only, special permit required.
- DANC 336 DANCE COMPOSITION III (3)** Group studies: continued exploration of thematic and abstract material; elements of dance and musical forms. Graded S/U. Prerequisites: DANC 335, Dance majors only, special permit required.
- DANC 341 POINTE TECHNIQUE I (2)** Basics of pointe (toe) work essential to students whose interest is in total comprehension of the elements necessary to the performance of classical ballet. Includes work to strengthen the ankles and insteps and acclimation of body weight and placement sur les pointes. May be repeated for a maximum of 6 credits. Prerequisite: DANC 223-224.
- DANC 342 POINTE TECHNIQUE II (2)** Continuum of Pointe Technique I with emphasis on tempi, allegro combinations, enchainments au milieu, and barre supported adage. May be repeated for a maximum of 6 credits. Prerequisite: DANC 341.
- DANC 351 TEACHING DANCE TECHNIQUE (3)** Organization, sequencing, and teaching techniques for studio dance classes in ballet, modern, jazz and tap dance.
- DANC 370-379 SPECIAL TOPICS IN DANCE (1-3)** Workshops and courses designed for study of special topics in dance not available in existing courses. Examples: Principles and Practices of Auditioning, Dance Repertory, Seminar in Dance Education, etc. Will be offered depending on student and faculty interest and availability. May be repeated for credit provided a different topic is covered. Prerequisite: consent of department chair.
- DANC 381 DANCE COMPANY (3)** Study and performance of advanced compositions including works by professional guest choreographers in ballet, modern and jazz/musical theatre style culminating in a performance. Course may be repeated for a maximum of 24 credits. Prerequisite: audition.
- DANC 383 MODERN DANCE REPERTORY (3)** Concentrated study of historical, current, or new repertory in modern dance, culminating in (a) performance(s). May be repeated for a maximum of 9 credits. Prerequisite: DANC 327-328 or consent of the instructor.
- DANC 384 BALLET REPERTORY (3)** Concentrated study of historical, current, or new repertory in ballet, culminating in (a) performance(s). May be repeated for a maximum of 9 credits. Prerequisite: DANC 323-324 or consent of instructor.
- DANC 391 STUDENT TEACHING IN ELEMENTARY SCHOOL (6)**
- DANC 392 STUDENT TEACHING IN SECONDARY SCHOOL (6)**
- DANC 421 SCIENTIFIC BASES FOR DANCE ANALYSIS (3)** Anatomical, physiological, and biomechanical principles of human movement. Laboratory application of these principles to body alignment and movement for dance.
- DANC 423-424 LEVEL III BALLET (3)** Continued study of classical ballet technique: advanced level enchainments, standard classical divertissement and style distinctions including progression of technical complexities and approaches to contemporary ballet stylization. May be repeated for a maximum of 9 credits. Prerequisite: Dance majors only, special permit required.
- DANC 427-428 LEVEL III MODERN (3)** Continued study of advanced modern dance technique utilizing complex movement and sequences. Focus on interpretation and performances. May be repeated for a maximum of 9 credits. Prerequisite: Dance majors only, special permit required.
- DANC 435 DANCE COMPOSITION IV (3)** The relationship between choreographic intent and movement vocabulary, form and content, process and product; continued study of ensemble work; collaboration with allied artists; and production elements for the proscenium or for the camera. Graded S/U. Prerequisites: DANC 336, Dance majors only, special permit required.
- DANC 451/551 DANCE EDUCATION AND PUBLIC POLICIES (3)** Examination of strategies for dance arts advocacy and dance education policies in public school contexts. Prerequisites: DANC 251, Dance majors only, special permit required.
- DANC 480 SENIOR PROJECT: SEMINAR (2)** Preparation for producing a dance concert or lecture-demonstration: planning, programming, technical production, box office management, budgeting, publicity and documentation. Graded S/U. Prerequisites: senior Dance majors only, special permit required.
- DANC 491 SENIOR PROJECT: CONCERT/LECTURE DEMONSTRATION (3)** Student-directed concert or lecture-demonstration production; publicly produced in the spring semester of the senior year. (Section 491.001 is reserved for Dance majors in the Dance Performance track. Section 002 is for majors in the Dance Performance and Education track.) Graded S/U. Prerequisites: DANC 480, Dance majors only, special permit required.
- DANC 492 PRACTICUM IN DANCE TECHNIQUE (1-6)** Student-directed studio course work in dance technique at a departmentally approved professional training school or program. May be repeated for a maximum of 6 credits. Prerequisites: Dance majors only, special permit required.
- DANC 495 INDEPENDENT STUDY IN DANCE (1-3)** Self-directed study of an academic or creative project designed to focus on a specialized area of dance. May be repeated for a maximum of 9 credits. Prerequisite: approval of plan of study by instructor and department chair.
- ## DEAF STUDIES (DFST)
- ### Upper Division
- DFST 308 FINGERSPELLING AND NUMBER USAGE (2)** Development and refinement of expressive fingerspelling skills through the use of classroom activities, videotapes and assignments. Prerequisite: SPPA 307, consent of instructor or chairperson.
- DFST 309 INTRODUCTION TO DEAF-BLINDNESS (2)** Acoustics, psychoacoustics, anatomy, physiology and pathologies of the hearing mechanism. Assessment of auditory function. Demographics, cultural considerations, management and social impact of deafness and hearing loss. Prerequisite: one course fulfilling GenEd II.A.I.
- DFST 310 CAREER EXPLORATION IN DEAFNESS (3)** Careers using sign language and careers working with deaf people. Prerequisite: SPPA 205.
- DFST 403 AMERICAN SIGN LANGUAGE III (3)** Intermediate grammatical features of ASL, vocabulary, conversational skills, as well as information on the culture of the deaf community. Prerequisite: SPPA 307.
- DFST 404 AMERICAN SIGN LANGUAGE IV (3)** Advanced grammatical features of ASL, vocabulary, conversational skills and involvement with the deaf community. Prerequisite: DFST 403.
- DFST 410 INTERNSHIP IN DEAF STUDIES (3)** Supervised field

experience with children and/or adults who are deaf or hard of hearing. One hour per week of class time and 5 hours per week in field placement. Prerequisites: SPPA 307, SPPA 310 and SPPA 345.

DEVELOPMENTAL MATHEMATICS (DVMT)

Lower Division

DVMT 100 DEVELOPMENTAL MATH I (4) A preparatory course designed to develop basic competence in arithmetic. Placement based on competency test scores. No credit toward graduation. Graded S/U. Prerequisite: departmental placement.

DVMT 101 DEVELOPMENTAL MATH II (4) A review of basic high school mathematics. Placement based on competency scores. No credit toward graduation. Graded S/U. Prerequisite: departmental placement.

DVMT 110 INTERMEDIATE ALGEBRA (3) Real number system, solutions of equations or inequalities in one and two variables, solutions of quadratic equations, exponents, radicals, functions, polynomial algebra, progressions and complex numbers. No credit toward graduation. Graded S/U. Prerequisite: one year of high school algebra.

DEVELOPMENTAL READING (DVRD)

DVRD 100 DEVELOPMENTAL READING I (3) Designed to develop basic reading skills requisite to college-level reading, including vocabulary development, literal comprehension, and textbook study/reading. No credit toward graduation. Graded S/U. Prerequisite: department placement.

DVRD 101 DEVELOPMENTAL READING II (3) Reviews the basic reading skills and stresses the development of intermediate reading skills important for effective college reading including inferential comprehension, critical reading, and varied reading rates. No credit toward graduation. Graded S/U. Prerequisite: department placement.

DEVELOPMENTAL WRITING (DVWR)

DVWR 101 PREPARATION FOR COLLEGE WRITING (3) Review of grammar and usage; instruction and practice in writing effective sentences. Prerequisite to ENGL 102 for students whose scores indicate they need additional preparation for college-level writing. Prerequisite: departmental placement. No credit toward graduation.

E-COMMERCE (ECOM)

Upper Division

ECOM 311 Principles of E-Commerce (3) Using resources on the Internet including design of Web pages and conducting business on the Net. Not open to those who successfully completed MNGT 311. Prerequisites: special permit, MNGT 337 or MNGT 437.

ECOM 367 Internet Technology (3) Introduction to technical management of Internet business support systems. Topics include Internet protocols, bandwidth and response time issues, server configuration and requirements, maintenance and scalability issues, security and firewalls. Prerequisites: special permit, MNGT 337 or MNGT 437.

ECOM 411 E-Commerce Marketing (3) Retrieval, analysis, storage and dissemination of information to support marketing decisions; utilizes Internet and World Wide Web. Not open to those who successfully completed MKTG 411. Prerequisites: special permit, MKTG 341, MNGT 337 or MNGT 437.

ECOM 431 E-Commerce Policy and Strategy (3) Impact of electronic commerce on strategy, organization structure and operating functions; Web-site business plan and Web-site development. Not open to those who successfully completed MNGT 411. Prerequisites: special permit, MNGT 311 or ECOM 311, ECOM 367, MKTG 411 or ECOM 411.

EARLY CHILDHOOD EDUCATION (ECED)

Lower Division

ECED 101 INTRODUCTION TO EARLY CHILDHOOD EDUCATION (3) Key components and aspects of the Early Childhood profession; examination of current trends and issues. Initiates professional portfolio. Not open to students who have completed ECED 101, Young Child as a Learner.

ECED 121 LABORATORY EXPERIENCES IN PROGRAMS FOR YOUNG CHILDREN (3) Practical application of educational

theory through observation of and participation with young children in classroom situations. Concurrent with ECED 303. Prerequisite: ECED 101.

ECED 201 INTERVENTION AND THE YOUNG CHLD (3) Social, physiological and psychological growth of young children from birth through age eight, including extensive investigation of interventions with young children and their families. Prerequisite: ECED 101, Introduction to Early Childhood Education.

Upper Division

ECED 301 MATERIALS AND EXPERIENCES FOR THE YOUNG CHILD (3) Stimulating the intellectual, physical, social and emotional development of young children through the use of varied instructional materials and activities. Prerequisite: ECED 101, ECED 303 or consent of chair.

ECED 303 CURRICULUM FOR YOUNG CHILDREN (3) Curriculum content and methods of teaching in programs for children under six. Emphasis on the integrated curriculum of language arts, social studies, nutrition, health and safety. Not open to students required to enroll in ECED 341 and ECED 342. Prerequisites: ECED 101 and ECED 201 or equivalents.

ECED 315 INFANT INTERVENTION (3) Psychological, social and physiological growth and development of infants and toddlers. Introduces individual Family Service Plans and Early Head Start. Prerequisite: 6 hours in Early Childhood Education.

ECED 321 FOUNDATION OF READING AND LANGUAGE ARTS (3) Theories, processes and acquisition of reading and language arts; cognitive, linguistic, social and physiological factors involved in oral and written language development. Prerequisite: admission to major.

ECED 341 PREPRIMARY CURRICULUM (4) Historical development and contemporary best practices in curriculum and methods of teaching children under six years of age. Includes concurrent enrollment in ECED 360, ECED 361, ARED 373, MUED 304 and SCIE 371. Extensive field placement. Prerequisites: admission to the Early Childhood Education Program, ECED 101, ECED 201, ECED 315, PSYC 201.

ECED 342 PRIMARY CURRICULUM (4) Emphasis is on the developmentally appropriate objectives, materials, activities and methods for teaching grades 1-3 language arts, social studies, mathematics and science. Includes concurrent enrollment in ECED 429, MATH 321 and KNES 324. Extensive field placement. Prerequisites: admission to the Early Childhood Education program and successful completion of the semester #6 Preprimary Curriculum sequence.

ECED 351 STUDENT TEACHING INTERNSHIP: PRIMARY (6) Integration of theory and practice in public school grades 1-3 with guidance from the classroom cooperating teacher and the university supervisor. Concurrent seminar session on campus to analyze, synthesize and reflect on the internship experience. Approximately seven weeks. Graded S/U. Prerequisites: meeting admission to student-teaching standards, completing student-teaching internship application with Center for Applied Skills in Education (CASE) Office, consent of department chair and director, CASE.

ECED 352 STUDENT TEACHING INTERNSHIP: PREPRIMARY (6) Integration of theory and practice in a public school preschool, pre-kindergarten or kindergarten setting with guidance from the classroom cooperating teacher and university supervisor. Concurrent seminar session on campus to analyze, synthesize and reflect on the internship experience. Approximately seven weeks. Graded S/U. Prerequisites: meeting admission to student-teaching internship standards, completing student-teaching internship application with CASE Office, consent of department chair and director, CASE.

ECED 355 DIFFERENTIATED STUDENT TEACHING INTERNSHIP IN EARLY CHILDHOOD EDUCATION (1-8) Student teaching internship experiences different from those provided in ECED 351 and ECED 352 based upon the needs of individual students. [Note: This is not a substitute for ECED 351 or ECED 352.] Experiences may be in public and private settings such as day-care centers, parent-child or infant programs, hospitals, or early intervention programs for young children who are developmentally disabled or at-risk, and their families. Graded S/U. May be taken for a maximum of 8 credits. Prerequisite: approval of adviser, department chair and director, CASE.

ECED 360 EARLY LITERACY: BEST PRACTICES AND MATERIALS (3) Emerging literacy process in children birth to age 5. Examina-

tion of strategies, materials and experiences for literacy development. Prerequisites: admission to the ECED major; ECED 321, taken concurrently with ECED 341.

ECED 361 TEACHING READING IN THE PRIMARY GRADES (1-3): BEST PRACTICES AND MATERIALS (3) Best practices, research and materials emphasizing developmentally appropriate active learning related to the process for beginning reading through grade three. Prerequisites: junior standing, admittance into the major, taken with ECED 342 and ECED 429.

ECED 403 THE CURRICULUM IN PRIMARY EDUCATION (3) The child, curriculum, content, methods and materials of teaching and program organization in the early primary school years. Emphasis is on the integrated curriculum of language arts, social studies, mathematics and science. Not open to students required to enroll in ECED 341 and ECED 342. Prerequisites: ECED 101 and ECED 201 or equivalents.

ECED 407 [507] INTERACTIVE TECHNOLOGY AND THE YOUNG CHILD (3) Emerging issues on interactive technology and early childhood education. Availability and use of interactive technology in schools. Prerequisite: ISTC 201.

ECED 411 [511] PARENTS AND TEACHERS: PARTNERS IN EARLY CHILDHOOD EDUCATION (3) The development of a rationale for improved parent-teacher relationships in early childhood education programs. The role of paraprofessionals, specialists and volunteers. Observation, participation in school work with parents and building the parent and school team are covered in the course. Prerequisite: 6 hours of Early Childhood Education or equivalent coursework.

ECED 415 [515] THE DAY-CARE CENTER (3) Interdisciplinary course designed to prepare day-care personnel. Resource persons from related agencies will participate. Topics include purposes of day care, problems of organization, administration and supervision, records, programs, community interaction, and parent relations. Field trips and observation of day-care centers. Prerequisites: 6 hours of Early Childhood Education.

ECED 417 [517] ASSESSMENT AND EARLY IDENTIFICATION OF LEARNING DISABILITIES (3) Focus on methods of assessment of young children that are developmentally appropriate, including the early identification of learning disabilities. The use of formal and informal assessment data in the design of instruction for young children is covered. Prerequisites: 6 hours of psychology and 6 hours of Early Childhood Education or equivalent coursework.

ECED 418 TEACHING THINKING SKILLS TO YOUNG CHILDREN (1) Focuses on current theories of teaching thinking skills with emphasis on methods, activities and questioning techniques appropriate in Early Childhood Education. Infrequently offered. Prerequisites: ECED 341 and 342 or equivalent, concurrent with student teaching or consent of department chairperson.

ECED 421 [521] PROBLEMS IN EARLY CHILDHOOD EDUCATION (3) Research findings used as a basis for program planning in nursery school, kindergarten and primary grades; current trends and issues are considered. Prerequisites: student teaching and/or teaching experience in preschool or primary grades; junior standing.

ECED 422 WRITING TECHNIQUES FOR TEACHERS IN EARLY CHILDHOOD EDUCATION (3) Applied techniques of written communication for classroom teachers and professional educators. Focus on developing the ability to write thoughtful, well-organized letters, reports, critiques and other professional papers. Prerequisites: ENGL 102/190 and 6 hours of education coursework. GenEd I.D.

ECED 429 PRINCIPLES AND PRACTICES OF READING AND LANGUAGE ARTS ASSESSMENT (3) Examination and practice using a range of literacy and reading assessments. Focus on relationship of assessment to instructional planning for diverse learners. Prerequisites: admission into major; taken concurrently with ECED 342 and ECED 361.

ECED 470-489 [570-589] SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION: (Topics to be determined) (1-3) In-depth study of a selected topic in early childhood education. The specific requirements and prerequisites will vary with each course, and this will be designated by the department each time a topic is scheduled. Graduate credit only with the approval of the department graduate director. Each topic may be taken as a separate course, repeatable for different topics for a maximum of 6 credits.

ECED 494 [594] TRAVEL AND STUDY: EARLY CHILDHOOD EDUCATION (1-6) A field study, including cultural tours in selected foreign countries, of current early childhood education programs,

facilities and trends. Academic work includes lectures, observations and personal interactions. Participation in planned educational activities and a follow-up paper are required. May be repeated for a maximum of 6 credits. Prerequisite: junior standing or consent of department chair.

ECED 495 INDEPENDENT STUDY IN EDUCATION: EARLY CHILDHOOD EDUCATION (1-4) Independent study in selected areas of Early Childhood Education. May be repeated for a maximum of 4 credits. Prerequisites: ECED majors only, completed application form, permission of department chair and 3.00 QPA.

ECED 496 DIRECTED READING: EARLY CHILDHOOD EDUCATION (1-4) Independent reading in selected areas of Early Childhood Education or related topics. May be repeated for a maximum of 4 credits. Prerequisites: ECED majors only, completed application form, permission of department chair and 3.00 QPA.

Graduate Division

See TU Graduate Catalog for course descriptions.

ECONOMICS (ECON)

Lower Division

ECON 201 MICROECONOMIC PRINCIPLES (3) Economic reasoning of individual choice in household and market decisions; behavior of firms in competitive and noncompetitive markets, functioning of labor and capital markets, role of the entrepreneur, and effects of government policies. GenEd II.C.2.

ECON 202 MACROECONOMIC PRINCIPLES (3) Inflation and unemployment — causes and remedies. Money and banking, government spending and taxation. International trade. GenEd II.B.2.

ECON 203 HONORS MICROECONOMIC PRINCIPLES (3) How private enterprise determines what is produced, prices, wages, profits. Supply and demand. Competition and monopoly. Labor unions, income distribution. Farm policy. The role of government in our economy. Not open to students who successfully completed ECON 201. GenEd II.C.2.

ECON 204 HONORS MACROECONOMIC PRINCIPLES (3) Analysis of the aggregate dimensions of the American economy. An investigation of American culture by the study of the American economy. Topics include national income and employment, inflation, economic development, business cycles, international trade, government spending and taxation. Not open to students who successfully completed ECON 202. GenEd II.B.2.

ECON 205 STATISTICS FOR BUSINESS AND ECONOMICS (3) Analysis and presentation of business and economic data; descriptive statistics and statistical inference; measures of central tendency and variability; estimation; testing of hypothesis; linear regression analysis. Not open to students who successfully completed ECON 301. GenEd I.C.

ECON 303 AMERICAN ECONOMIC DEVELOPMENT (3) Description and analysis of growth and development of U.S. economy and its institutions from colonial times to 20th century. Emphasis on "new" economic history; explicit economic models and quantitative methods to analyze historical phenomena. Prerequisites: ECON 201 and ECON 202.

ECON 305 SURVEY OF INTERNATIONAL ECONOMICS (3) Principles of international trade and international monetary theory and finance; international economic problems and issues facing the United States within the global economy. This course does not count toward Economics major or minor requirements. Prerequisites: ECON 201 and ECON 202.

ECON 309 INTERMEDIATE PRICE THEORY (3) Determination of prices, output, wages, resource allocation. Theory of the firm. Theory of competition, monopolistic competition, oligopoly, and monopoly. Prerequisites: ECON 201 and ECON 202.

ECON 310 MACROECONOMIC THEORY (3) Impact of monetary and fiscal policy. The overall level of output, prices, employment, interest rates. Prerequisites: ECON 201 and ECON 202.

ECON 313 MONEY AND BANKING (3) Organization and function of the money, credit and banking system of the United States, banking institutions, Federal Reserve System; the relation of money and credit to prices; foreign exchange. Prerequisites: ECON 201 and ECON 202.

ECON 321 [521] HISTORY OF ECONOMIC THOUGHT (3) Development of economic theory; 18th- and 19th-century classical schools. Modern economic literature on price, investment, and employment. Prerequisites: ECON 201 and ECON 202.

- ECON 323 COMPARATIVE ECONOMIC SYSTEMS** (3) Effects of alternative institutional arrangements on incentives and individual behavior affecting the allocation of resources. Differences between decentralized or market systems and centralized or government planning. Prerequisites: ECON 201 and ECON 202. GenEd I.D.
- ECON 325 ECONOMIC DEVELOPMENT** (3) Theory of economic growth. Problems and programs relating to least developed countries. Prerequisites: ECON 201 and ECON 202. GenEd I.D.
- ECON 330 INDUSTRIAL ORGANIZATION AND PRICE ANALYSIS** (3) Competition, collusion, monopoly, and oligopoly in regulated and unregulated markets. Economics of firm management, market organization, sales practices and anti-trust laws. Prerequisites: ECON 201 and ECON 202.
- ECON 331 GOVERNMENT AND ECONOMIC LIFE** (3) Economics and philosophy of markets and government and criteria for judging their success: end-state vs. process, utilitarian vs. individual rights. Applications focus on competition and antitrust; others include industrial policy, welfare economics, and public choice. Prerequisites: ECON 201 and ECON 202.
- ECON 333 ECONOMICS OF POVERTY AND DISCRIMINATION** (3) Study of the causes of poverty. How poverty and discrimination are interrelated. An analysis of existing and proposed programs to alleviate poverty and discrimination. Prerequisites: ECON 201 and ECON 202. GenEd I.D.
- ECON 337 PUBLIC FINANCE** (3) Non-market provision of goods and services at all levels of government: principles of public finance, specific public spending programs and taxes, allocation of resources and income distribution. Prerequisites: ECON 201 and ECON 202.
- ECON 339 HEALTH ECONOMICS** (3) Analysis of the economic organization of the health care sector of the U.S. economy; alternative health care delivery systems and methods of financing health care services; current issues in health economics. Prerequisite: one upper-level economics course or consent of instructor.
- ECON 341 [541] LABOR ECONOMICS AND LABOR RELATIONS** (3) The determination of wages. Labor unions: history, structure, activities, effects. Government labor policy. Prerequisites: ECON 201 and ECON 202.
- ECON 351 URBAN ECONOMICS** (3) Economic bases for the existence of metropolitan areas. The economy of the metropolitan area; its growth, income distribution, economic stability. Transportation and land use patterns. Social and other problems of metropolitan areas. Application of elementary price theory to the analysis and solution of urban issues and problems. Prerequisites: ECON 201 and ECON 202.
- ECON 374 ECONOMIC ISSUES OF GENDER** (3) Explores the changing role of men and women in the U.S. and other economies with specific emphasis on issues such as differences in occupations and wages, theories of discrimination, the economics of the household, child care, divorce, poverty, and the effect of government programs on families. Prerequisite: ECON 201.
- ECON 375 ENVIRONMENTAL ECONOMICS** (3) Applying tools of economic theory to issues focusing on natural resources and environmental policy. Topics include market failure, valuation of non-market goods, cost-benefit analysis, and pollution. Prerequisite: ECON 201.
- ECON 401 INTRODUCTION TO ECONOMETRICS** (3) The problem of testing economic theories against empirical data; the formulation and estimation of regression model; the use of the method of multiple regression in testing the various hypotheses of economic theories; serial correlation; the problem of identification; application of simultaneous equation models; the use and construction of econometric models for forecasting and policy making. Prerequisite: ECON 205 or permission of instructor.
- ECON 409 MANAGERIAL ECONOMICS** (3) Applications of micro-economic theory to business policies and decisions. The utilization of analytical and decision-making tools derived mainly from economic theory, quantitative methods, finance and marketing theory. Topics considered include pricing practices and market structures, investment decision-making, and estimation of demand and cost of production. Prerequisites: ECON 309 and ECON 205 or MATH 231.
- ECON 410 BUSINESS CYCLES AND FORECASTING** (3) Business cycle theory; measuring economic activities; policy proposals for controlling economic fluctuations. Prerequisite: ECON 313 or ECON 310.
- ECON 419 APPLIED MICROECONOMICS** (3) Applications of principles developed in price theory to problems arising in various

market situations. Emphasis is on analysis and solutions of specific problems. Prerequisite: ECON 309.

- ECON 421 INTERNATIONAL ECONOMICS** (3) International trade theory; balance of payments, problems, and adjustment mechanism; foreign exchange; foreign trade policy; theory of tariffs and other trade restrictions; international monetary system and organization; trade and economic growth. Prerequisites: ECON 201 and ECON 202.
- ECON 423 INTERNATIONAL MONETARY THEORY AND POLICY** (3) International issues in money and banking. Foreign exchange markets, exchange rates, and adjustment in the balance of payments. International monetary theory and its application. Prerequisite: ECON 313.
- ECON 451 INTRODUCTION TO MATHEMATICAL ECONOMICS** (3) Intended primarily for students planning a graduate education in economics. A study of the fundamental mathematical methods widely used in economics: calculus and linear algebra. Emphasis is on optimization theory; economic examples are used throughout. Prerequisites: ECON 309, ECON 310 or permission of instructor and MATH 211 or MATH 274.
- ECON 470-479 TOPICS IN ECONOMICS** (3) The economic development process in a particular area of the world. The region chosen will depend upon mutual faculty and student interest. Analysis of the different factors that have promoted and hindered economic growth. Various policy options will be explored. May be repeated for credit provided a different topic is covered. Prerequisites: ECON 201 and ECON 202, junior standing, and two upper-level economic courses.
- ECON 485 [585] SEMINAR ON ECONOMIC ISSUES** (3) Research and writing of papers on an economic issue selected by the instructor. Prerequisites: ECON 309, ECON 310 and ECON 313.
- ECON 493 [593] WORKSHOP ON ECONOMIC EDUCATION** (3) Designed to help teachers and school administrators gain a better understanding of the economic working of the society in which we live. Prerequisite: consent of the instructor.
- ECON 495 INDEPENDENT STUDY** (1-3) Individual and supervised study in selected areas of economics. Prerequisites: Economics major, junior standing, 2.50 QPA, and permission of instructor.
- ECON 497 INTERNSHIP IN ECONOMICS** (1-3) Supervised work experience designed to promote an understanding of the economic system and the practical application of economic principles. Prerequisites: Economics major, junior standing, 2.50 QPA, and consent of Internship Coordinator.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

EDUCATION (EDUC)

Lower Division

- EDUC 101 CAREERS IN EDUCATION** (2) Guided field experiences designed to help students expand their knowledge of careers in education as a basis for choosing a major emphasis. Examination of careers in education and the scope of education in a democracy.
- EDUC 201 THE PARENTING PROCESS** (3) An overview of the American parenting experience designed to give the learner information he or she will need to become an effective parent. GenEd II.B.3.

Upper Division

- EDUC 301 WRITING AND COMMUNICATION SKILLS FOR TEACHERS** (3) Practicum on development of written and oral communication skills needed in professional teaching situations. Focus will be on preparation of written materials which are appropriate for specific classroom and professional needs. Course content will be individualized to meet interests and needs of class members. Prerequisite: ENGL 102 or ENGL 190. GenEd I.D.
- EDUC 311 CREATIVE TUTORING** (2) Designed to address the needs of college students who are interested in working with adults in a tutorial relationship. Students will receive instruction in methods and materials for tutoring. Graded S/U. Prerequisites: PSYC 101 and consent of instructor.
- EDUC 325 FIELD EXPERIENCES: EDUCATION IN INFORMAL SETTINGS** (1-3) Studying and/or working with children in non-classroom settings, such as camps, recreational centers, or field trips. Individual plans of study, and evaluation will be developed with the instructor. Prerequisite: consent of instructor.

- EDUC 401 FOUNDATIONS OF EDUCATION (3)** Sociological, philosophical, psychological and historical foundations of western education. Perspectives in these areas as they relate to current educational issues and practices. Prerequisite: consent of chair, Department of Secondary Education.
- EDUC 406 [506] RECENT TRENDS IN TEACHING (3)** Recent teaching strategies, organizational patterns, and curricular innovations for levels K-12 are examined. Students may pursue individualized projects. Prerequisite: student teaching or senior standing with consent of instructor.
- EDUC 407 [507] CONTEMPORARY ISSUES IN EDUCATION (3)** Seminar approach to current issues in education. Prerequisite: student teaching or senior standing with consent of instructor. (No prerequisites when offered in day.)
- EDUC 409 [509] FIELD STUDIES OF THE CHILD AND HIS COMMUNITY (2)** Planning and working with groups of children in approved social agencies or making extensive studies of recreational and non-recreational social agencies. Class discussion and field trips.
- EDUC 414 ASSESSMENT AND EVALUATION OF EDUCATIONAL PROGRAMS (3)** Development and use of classroom assessment and evaluation techniques. Assessment: portfolios and student progress. Evaluation: formative, summative, and performance based. Validity, reliability, and useability of test results. Not open to those who successfully completed EDUC 414.
- EDUC 417 [517] CHILDREN'S LITERATURE AND OTHER MATERIALS FOR READING AND LANGUAGE ARTS IN ELEMENTARY SCHOOL (3)** Study of literature, texts, and technology of reading and language arts instruction. Attention to authors, illustrators, awards, criteria for selection and importance in curricula. Prerequisites: Two English courses.
- EDUC 419 [519] STORYTELLING (3)** The selection and presentation of stories for children. A study of sources for the storyteller in folklore, myth, legend, poetry, and the writings of storytellers. Development of skills in storytelling. Prerequisite: EDUC 417 or consent of instructor.
- EDUC 445 [545] HUMAN RELATIONS AND THE INDIVIDUAL (3)** Consideration given to understanding one's self, the nature of prejudice and environmental factors which influence minority groups and cultures, and the relationship of these factors to the development of meaningful educational programs. Prerequisites: student teaching and at least one course each in sociology and psychology.
- EDUC 453 [553] SUPERVISORY PRACTICES IN TEACHER EDUCATION (3)** Experiences and study in developing particular skills and competencies for supervising quality laboratory/field experiences. Content is designed for supervising teachers, team leaders, and resource personnel. Prerequisite: teaching experience.
- EDUC 460 [560] TEACHING IN A MULTI-CULTURAL/MULTI-ETHNIC SOCIETY (3)** Provides teacher education students with the background knowledge, understanding, and techniques to deal effectively with children from diverse cultural and ethnic backgrounds. Prerequisite: 3 credits in Education or PSYC 201.
- EDUC 463 [563] SEX ROLE DEVELOPMENT IN THE SCHOOLS (2 or 3)** An examination of theories of sex role development and their impact on educational methods and curriculum. Staffed by College of Education. Assistance of Women's Studies staff may be utilized. Carries 3 credits when scheduled for three hours meeting per week and 2 credits when scheduled for two hours meeting per week. Prerequisite: 6 credits in Education.
- EDUC 467 [567] TEAM TEACHING WORKSHOP (3)** Conducted to assist teachers who are actively engaged in team teaching or will be participating as members of a team in the future.
- EDUC 470-489 [570-589] SPECIAL TOPICS IN EDUCATION: (Topic to be named) (1-3)** In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time there is a topic scheduled. May be repeated for credit provided a different topic is covered.
- EDUC 494 [594] TRAVEL AND STUDY EDUCATION: (Project to be named) (1-6)** Study abroad of educational facilities, programs or practices, or selected projects in educational topics. By specific arrangement with program chair and sponsoring instructors.
- EDUC 495 [595] INDEPENDENT STUDY IN EDUCATION: (Project to be named) (1-4)** An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: approval of appropriate program chair.

- EDUC 496 [596] DIRECTED READINGS IN EDUCATION (1-4)** Independent readings in selected areas of Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the department to major students. Prerequisite: approval of appropriate program chair.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

ELECTRONIC MEDIA AND FILM (EMF)

Lower Division

- EMF 140 INTRODUCTION TO ELECTRONIC MEDIA (3)** Role of science, politics, culture and economics in the development and present status of radio, television, cable, film and satellite industries. Not open to students who have successfully completed MCOM 140. GenEd II.B.3.
- EMF 205 WOMEN AND GENDER IN FILM (3)** Treatment of women and gender issues in film from silent movies to present. Not open to students who have successfully completed MCOM 205.
- EMF 221 PRINCIPLES OF FILM AND MEDIA PRODUCTION (3)** Basic techniques and principles of film, video and audio. Not open to students who have successfully completed MCOM 221.
- EMF 265 RADIO PRODUCTION I (3)** Introduction to the equipment and performance techniques to produce a variety of radio show formats. Prerequisites: EMF 140/MCOM 140 and COMM 131. Not open to students who have successfully completed MCOM 265.
- EMF 267 FILMMAKING I: BASIC 16MM PRODUCTION (3)** Techniques and theories of motion picture production. Students plan, film and edit their projects. Not open to students who have successfully completed MCOM 267.
- EMF 271 TELEVISION STUDIO PRODUCTION (3)** Basic principles, procedures, techniques and terminology of television studio production. Prerequisite: EMF 140/MCOM 140. Not open to students who have successfully completed MCOM 271.
- EMF 273 ELECTRONIC FIELD PRODUCTION (3)** Basic principles of electronic field production, introducing field camera operation, video editing and basic video producing techniques for commercial and non-commercial arenas. Prerequisite: EMF 140/MCOM 140. Not open to students who have successfully completed MCOM 273 or MCOM 371.
- EMF 275 PRINCIPLES OF FILM AND VIDEO EDITING (3)** Theory, history, and practice of post-production methods and aesthetics, emphasizing narrative continuity techniques. Not open to those who successfully completed MCOM 436. Prerequisite: MCOM 267 or MCOM 273.

Upper Division

- EMF 311 HISTORY OF ELECTRONIC MEDIA (3)** Economic, social, technical and artistic factors in the development of radio, television and other media from 1900 to the present. Prerequisites: EMF 140/MCOM 140 and ENGL 102. Not open to students who have successfully completed MCOM 311.
- EMF 331 BROADCAST/CABLE PROGRAMMING (3)** Programming principles, strategies and practices for the radio, television and cable industries. Analysis and evaluation of programs and program formats. Prerequisites: EMF 265/MCOM 265, or EMF 271/MCOM 271, or EMF 273/MCOM 273. Not open to students who have successfully completed MCOM 331.
- EMF 361 DOCUMENTARY FILM AND VIDEO (3)** History, theory and criticism of documentaries. Production required. Prerequisite: EMF 267/MCOM 267, or MCOM 371. Not open to students who have successfully completed MCOM 361.
- EMF 362 EXPERIMENTAL FILM AND VIDEO (3)** History, theory and criticism of avant-garde works. Production required. Prerequisite: EMF 267/MCOM 267, or MCOM 371. Not open to students who have successfully completed MCOM 362.
- EMF 363 HISTORY OF FILM (3)** Exploration of the social, artistic, economic and technical factors in the development of the motion picture from 1900 to the present. Prerequisites: MCOM 145 or EMF 221 and ENGL 102. Not open to students who have successfully completed MCOM 363. GenEd I.D.
- EMF 364 AESTHETICS OF FILM (3)** Theory and aesthetics of silent, sound, and avant-garde motion pictures. Prerequisite: MCOM 145 or EMF 221. Not open to students who have successfully completed MCOM 364.

- EMF 365 RADIO PRODUCTION II (3)** The process of commercial and studio recording for radio broadcast will be studied through an examination of the principles of tape recording and editing. The student will participate in commercial and studio recording projects. Prerequisite: EMF 265/MCOM 265. Not open to students who have successfully completed MCOM 365.
- EMF 367 FILMMAKING II: SYNC SOUND 16MM TECHNIQUES (3)** Exploration of 16mm filmmaking, involving synchronous sound, cinematography, sound recording, lighting, directing, editing and post production. Prerequisite: EMF 267/MCOM 267. Not open to students who have successfully completed MCOM 367.
- EMF 368 GENRE THEORY AND CRITICISM (3)** Principles and aesthetics of different film genres. Prerequisite: EMF 363/MCOM 363. Not open to students who have successfully completed MCOM 368.
- EMF 375 BROADCAST PERFORMANCE (3)** The process of communication through broadcast performance. The principles of broadcast communication will be applied to such functions as television and radio news announcing, commercial announcing, sports announcing and music announcing. Laboratory experiences provided. Prerequisite: EMF 265/MCOM 265. Not open to students who have successfully completed MCOM 375.
- EMF 377 BROADCAST/FILM WRITING (3)** Training and practice in writing non-fiction, fiction, and commercial/PSA scripts for the broadcast media and film. Prerequisites: ENGL 102; EMF 267/MCOM 267, or EMF 271/MCOM 271. Not open to students who have successfully completed MCOM 377.
- EMF 379 SEMINAR IN TELEVISION (3)** Intensive study of one aspect of television, such as genre, producer, director and writer. Prerequisite: EMF 140/MCOM 140. Not open to students who have successfully completed MCOM 379.
- EMF 387 CORPORATE VIDEO (3)** Application of video production practices to a client situation; production of a corporate video required. Prerequisite: EMF 273/MCOM 273. Not open to students who have successfully completed MCOM 387.
- EMF 403 SPORTSCASTING (3)** Theory and practical application of sportswriting, interviewing, and play-by-play description. Prerequisite: junior/senior standing, EMF 265/MCOM 265 and MCOM 371 (may be taken concurrently). Not open to students who have successfully completed MCOM 403.
- EMF 405 SCREENWRITING (3)** Narrative structure and mechanics; creation of a complete feature-length screenplay. Prerequisite: EMF 377/MCOM 377. Not open to students who have successfully completed MCOM 405.
- EMF 421 RADIO STATIONS OPERATIONS (3)** Lecture and practice in the advanced study of the internal workings of radio stations and the radio industry. Prerequisite: EMF 365/MCOM 365 or consent of instructor. Not open to students who have successfully completed MCOM 421.
- EMF 430 THE MEDIA PRODUCER (3)** Management and administration of film and video projects. Prerequisites: EMF 271/MCOM 271, EMF 273/MCOM 273, OR EMF 267/MCOM 267. Not open to students who have successfully completed MCOM 430.
- EMF 436 VIDEO AND FILM EDITING (3)** Theory and practice of editing to construct continuity sequences. Prerequisite: EMF 367/MCOM 367 or MCOM 371. Not open to students who have successfully completed MCOM 366.
- EMF 455 DIRECTING FOR FILM AND VIDEO (3)** Fundamentals of screen directing, which includes script breakdown, scene blocking, communication with cast and crew, and the logistics of production. Prerequisite: EMF 267/MCOM 267, or EMF 271/MCOM 271. Not open to students who have successfully completed MCOM 455.
- EMF 463 INTERNSHIP IN RADIO (1-6)** Practical field experiences. Under faculty and I/CE supervision, students work as interns with a professional in the field. Graded S/U. Prerequisites: junior/senior standing, minimum cumulative of 2.75 and 3.00 in the major, completion of appropriate courses determined by the department. Please check with the I/CE office for specifics.
- EMF 464 INTERNSHIP IN FILM (1-6)** Practical field experiences. Under faculty and I/CE supervision, students work as interns with a professional in the field. Graded S/U. Prerequisites: junior/senior standing, minimum CQPA of 2.75 and 3.00 in the major, completion of appropriate courses determined by the department. Please check with the I/CE office for specifics.
- EMF 465 INTERNSHIP IN TELEVISION (1-6)** Practical field experiences. Under faculty and I/CE supervision, students work as interns with a professional in the field. Graded S/U. Prerequisites: junior/senior standing, minimum CQPA of 2.75 and 3.00 in the major, completion of appropriate courses determined by the department. Please check with the I/CE office for specifics.
- EMF 471 TELEVISION STUDIO OPERATIONS (3)** Managerial, technical and creative responsibilities of the producer and aesthetic, interpretive, stylistic concerns of the director. Prerequisite: EMF 271/MCOM 271 or EMF 273/MCOM 273. Not open to students who have successfully completed MCOM 471.
- EMF 473 FILMMAKING III: ADVANCED 16MM TECHNIQUES (3)** Seminar in professional filmmaking techniques leading to completion of an original narrative film. Prerequisite: EMF 367/MCOM 367. Not open to students who have successfully completed MCOM 473.
- EMF 475 FILM ANALYSIS (3)** Style of a director, studio or filmmaking method in terms of thematic and formal properties and their influences upon the art of film. Prerequisite: EMF 221 or MCOM 145. Not open to students who have successfully completed MCOM 475.
- EMF 476 SPECIAL TOPICS IN ELECTRONIC MEDIA (3)** In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits when a different area is covered. Prerequisites: EMF 140/MCOM 140 and junior/senior standing. Not open to students who have successfully completed MCOM 476.
- EMF 478 SPECIAL TOPICS IN FILM (3)** In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits when a different topic is covered. Prerequisites: EMF 221 or MCOM 145 and junior/senior standing.
- EMF 481 TELEVISION JOURNALISM (3)** Advanced broadcast journalism, focusing on television news reporting, editing and production. Prerequisite: MCOM 381.
- EMF 487 SEMINAR IN DIGITAL POST-PRODUCTION (3)** Non-linear editing skills and techniques including audio and multi-media applications. Prerequisite: EMF 2xx Principles of Editing.
- EMF 491 INDEPENDENT STUDY IN FILM (1-6)** Directed study in production or research through readings, projects, papers and/or seminars. May be repeated for a maximum of 6 credits. Prerequisite: EMF 267/MCOM 267 or EMF 363/MCOM 363; consent of instructor.
- EMF 493 INDEPENDENT STUDY IN RADIO (1-6)** Directed study through readings or projects in conjunction with the operation of the student radio station. Selected students may work as laboratory assistants in the EMF 265 (Radio Production I) class. May be repeated for a maximum of 6 credits. Prerequisites: EMF 265/MCOM 265 and consent of instructor.
- EMF 495 INDEPENDENT STUDY IN TELEVISION (1-6)** Directed study through readings, projects, papers or seminars. May be repeated for a maximum of 6 credits. Prerequisites: EMF 271/MCOM 271 or EMF 273/MCOM 273 or EMF 311/MCOM 311; consent of instructor.

ELEMENTARY EDUCATION (ELED)

Upper Division

- ELED 311 CHILD AND THE ELEMENTARY SCHOOL CURRICULUM (3)** Curriculum approaches and methods for teaching children. Students observe, participate, and teach in elementary school classrooms one day per week. Prerequisites: PSYC 201 and ELED 363.
- ELED 322 FOUNDATIONS OF READING AND OTHER LANGUAGE ARTS (3)** Examination of theories, processes, and acquisition of reading and language arts, including cognitive, linguistic, social, and physiological factors involved in oral and written language development. Prerequisites: ENGL 102 and PSYC 201. Course not applicable to GenEd category I.D.
- ELED 323 PRINCIPLES AND PRACTICES OF INSTRUCTION IN READING AND LANGUAGE ARTS IN THE ELEMENTARY SCHOOL (3)** Principles for developing reading and language arts programs in the elementary classroom. Examination of current approaches, methodologies, and strategies for instruction. Prerequisites: PSYC 201.
- ELED 363 FIELD STUDIES FOR ELEMENTARY TEACHING (3)** Initial experiences in teaching and learning in specified settings. Students study school and community activities related to classroom instruction. Prerequisite: PSYC 201 or consent of instructor.
- ELED 365 TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (3)** Methods and materials for elementary school social

studies instruction. Attention given to multicultural and global perspectives.

ELED 429 [529] METHODS AND PRACTICES OF ASSESSMENT IN READING AND LANGUAGE ARTS (3) Examination of and practice using a range of assessments for reading and language arts development, focusing on the relationship of assessment to instructional planning for diverse learners. Prerequisites: ELED 322, ELED 323.

ELED 441 [541] CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3) The child and the curriculum. The teacher's role in curriculum as a process. Principles and philosophies of curriculum development. Objectives, practices, materials and evaluation trends.

ELED 457 [557] ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (3) Methods of teaching English to elementary school children whose native tongue is another language. Prerequisites: elementary language arts methods course or elementary teaching experiences or consent of instructor.

ELED 458 [558] PRACTICUM: ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (1-4) Supervised practical experience in teaching English to elementary school children whose native tongue is another language. May be repeated for a maximum of 4 credits. Prerequisites: ELED 457 and student teaching or teaching experience.

ELED 470-489 [570-589] SPECIAL TOPICS IN ELEMENTARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Elementary Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Each topic may be taken as a separate course. May be repeated for a maximum of 9 credits provided different topics are covered.

ELED 494 [594] TRAVEL AND STUDY: ELEMENTARY EDUCATION (1-6) Study abroad of educational facilities, programs, or practices, or selected projects in Elementary Education topics. By special arrangement with program chairperson and sponsoring instructors. May be repeated for a maximum of 6 credits.

ELED 495 [595] INDEPENDENT STUDY IN EDUCATION: ELEMENTARY (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. May be repeated for a maximum of 4 credits. Prerequisite: approval of appropriate program chair.

ELED 496 [596] DIRECTED READING: ELEMENTARY EDUCATION (1-4) Independent reading in selected areas of Elementary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the department to major students. May be repeated for a maximum of 4 credits. Prerequisite: approval of appropriate program chair.

Student Teaching

The following student teaching courses involve 10 to 15 weeks, full-time, in public school classrooms under the guidance of master teachers. Conferences with the university supervisor. Prerequisites: approval of Elementary Education Department and the director of the Center for Applied Skills in Education (CASE).

ELED 399 DIFFERENTIATED STUDENT TEACHING — ELEMENTARY (1-8) Student teaching experience in addition to those in ELEM 468 or student teaching in special subject areas, according to needs and interests of the student. May be repeated for a maximum of 8 credits. Graded S/U.

ELED 468 STUDENT TEACHING IN THE ELEMENTARY SCHOOL (12) 14- to 15-week full-time field experience in public school classrooms under guidance of master teachers and university supervisors. Graded S/U.

ELED 469 STUDENT TEACHING SEMINAR (3) Readings, action research, and discussion on school environments, instructional delivery, diagnosis/evaluation, classroom management policies. Active inquiry within context of classrooms and agencies that influence schooling practices. Corequisite: with student teaching.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

ENGLISH (ENGL)

English Course Level and Numbering

Lower-division English courses (100-200-level) are designed as introductions to the subject. Upper-division English courses (300-400-level) are more particularly focused and assume students have the background specified by the course prerequisites. There is no difference in degree of difficulty or specialization between 300-level and 400-level courses; students should not assume, therefore, that a 400-level course is more advanced than one at the 300 level.

Lower Division

ENGL 102 WRITING FOR A LIBERAL EDUCATION (3) Learning the critical methods of liberal education by writing college-level prose about significant books in four areas: the natural sciences, the humanities, the social sciences, and the fine arts. GenEd I.A.

ENGL 152 SOLVING LITERARY PROBLEMS (3) Using information effectively to solve textual, cultural, and interpretive problems in literature. Includes multimedia and interdisciplinary approaches. GenEd I.B.

ENGL 190 HONORS WRITING SEMINAR (3) Exploration of issues and critical methods vital to a liberal education. Development of strategies for effective writing. Emphasis on student essays and reports. Prerequisite: admission to Honors College. Special permit required. GenEd I.A.

ENGL 205 SHAKESPEARE FOR NON MAJORS (3) Shakespeare's major plays and poetry in their cultural context. Emphasis on plot, interpretation and performance. GenEd II.C.1

ENGL 221 BRITISH LITERATURE TO 1798 (3) Survey of poetry, prose, and drama from the Middle Ages through the 18th century; emphasis on works by such writers as Chaucer, Shakespeare, Milton, Pope and Swift. GenEd II.C.1.

ENGL 222 BRITISH LITERATURE SINCE 1798 (3) Survey of poetry and prose of the 19th and early 20th centuries, such as works by Wordsworth, Keats, Dickens, Browning, Lawrence and Woolf. GenEd II.C.1.

ENGL 229 MODERN IRISH LITERATURE (3) 19th- and 20th-century prose, poetry and drama.

ENGL 230 MAIN CURRENTS IN AMERICAN LITERATURE (3) Historical and thematic approach to literature that has helped define the national voice. Works by such authors as Hawthorne, Twain, Dickinson, Faulkner, Morrison and Plath. GenEd II.B.1.

ENGL 233 SURVEY OF AFRICAN-AMERICAN LITERATURE (3) Slave narratives, post-Civil War and 20th-century developments and such writers as Wheatley, Douglass, Hughes and King. GenEd II.C.3.

ENGL 234 MAJOR WRITERS IN AFRICAN-AMERICAN LITERATURE (3) Literature of slavery, the Reconstruction, the Harlem Renaissance, the Depression and after, with emphasis on Chesnut, Hughes, Wright and Alice Walker. Prerequisite: ENGL 102; ENGL 233 is recommended but not required as a prerequisite to ENGL 234.

ENGL 235 ETHNIC-AMERICAN LITERATURE (3) Comparative survey of Asian, European, Black, Jewish, and other immigrant American literature, with emphasis on literary, historical, and sociological approaches. GenEd II.C.3.

ENGL 236 AMERICAN INDIAN LITERATURE, 1772-PRESENT (3) Emphasis on the contributions of American Indian writers to American literature. Study of the genres in which American Indians have written, the influences of both Indian and non-Indian world views, themes, and techniques represented in these works. GenEd II.B.1.

ENGL 239 19TH AND 20TH CENTURY JEWISH LITERATURE (3) Jewish literature from Eastern Europe, the United States and Israel. Writers vary. GenEd II.C.3.

ENGL 240 CLASSICS OF THE WESTERN HERITAGE (3) Selections from the most influential literature of the western tradition. Authors will vary but will be of the stature of Homer, Dante, Shakespeare, Voltaire, George Eliot, and Dostoevsky. GenEd II.C.1.

ENGL 243 INTRODUCTION TO CLASSICAL MYTHOLOGY (3) The study of myth in selected works from Greek and Roman literature. GenEd II.C.1.

ENGL 244 WORLD FOLKLORE (3) Study of folk expression throughout the world. Focus on such folk narratives as fairy tale (marchen) and legend from a variety of cultures. Characteristics of folklore, folk groups, and methodology. Children's folklore, jokes, folk architecture and arts. Prerequisite: ENGL 102. GenEd II.D.

ENGL 245 THE CONTINENTAL SHORT STORY (3) Study of the development of the short story in 19th and 20th century Europe.

Readings include such major continental writers as Flaubert, Tolstoy, Kafka, Sartre and Camus. Prerequisite: ENGL 102.

ENGL 248 LITERATURE OF GLOBAL EXPERIENCE (3) A study of modern literature in its cultural diversity from six continents. GenEd II.D.

ENGL 251 APPLIED GRAMMAR (3) Grammar, syntax, and usage for improvement of writing style. No credit toward major requirements. Prerequisite: ENGL 102.

ENGL 261 TRADITION AND FORM IN WESTERN POETRY (3) Elements and types of poetry in the western tradition through readings of American, English, and European works. Emphasis on imagery, diction, sound patterns, stanzaic form, major modes and genres. GenEd II.C.1.

ENGL 263 TRADITION AND FORM IN WESTERN FICTION (3) Elements and types of fiction in the western tradition through close readings of American, English, and European works, especially short stories. Emphasis on point of view, plot, character, setting, design, and theme. GenEd II.C.1.

ENGL 265 TRADITION AND FORM IN WESTERN DRAMA (3) Elements and types of drama in the western tradition through close readings of American, English, and European works. Emphasis on structure, plot, character, setting, conventions, stage history.

ENGL 270 IDEAS IN LITERATURE (3) Thematic approach to works of American, British, and World literature. Content varies. May be repeated for a maximum of 6 credits.

ENGL 283 INTRODUCTION TO CREATIVE WRITING (3) Theories and technical considerations pertinent to writing poetry and fiction, with discussion of student writing. Prerequisite: ENGL 102. GenEd I.E.

ENGL 290 HONORS SEMINAR IN LITERATURE (3) Small group discussion and analysis of selected works from the western tradition. Content varies. May be repeated for a maximum of 6 credits. Prerequisite: admission to the Honors College or consent of instructor. Special permit required. GenEd II.C.1.

Upper Division

ENGL 301 RHETORIC AND SCIENCE (3) A study of the role language plays in the making and unmaking of facts in the contemporary world of science and technology. GenEd II.A.2

ENGL 310 WRITING ARGUMENT (3) Establishing, defending, and arguing an opinion, focusing on structure, claims, evidence, and warrants. Prerequisite: ENGL 102. GenEd I.D.

ENGL 311 WRITING POETRY (3) Nature of the creative process and art of imaginative expression in writing poetry. Prerequisite: ENGL 102. GenEd I.E.

ENGL 312 WRITING FICTION (3) Nature of the creative process and art of imaginative expression in writing short fiction. Prerequisite: ENGL 102. GenEd I.E.

ENGL 313 ACADEMIC ESSAY (3) Emphasizes expository writing within an academic setting. Priorities include organizational support for claims, correct usage, and effective style, using conventional academic models. Prerequisite: 2 ENGL courses. GenEd I.D.

ENGL 315 THE LITERARY ESSAY (3) Emphasizes the creative use of language, using the traditional literary essay as the model for personal expression and exploration of the human experience. Prerequisite: two ENGL courses. GenEd I.D.

ENGL 316 WRITING ABOUT LITERATURE (3) Composition of the literary essay, its structure and style. Emphasis on explication, character, plot, and thematic analysis of poetry, fiction and drama. Prerequisite: ENGL 102. GenEd II.D.

ENGL 317 WRITING FOR BUSINESS AND INDUSTRY (3) Standard written formats used in business and industry, including correspondence, memoranda, and reports. Projects individualized to meet student needs and career interests. Prerequisite: two ENGL courses. GenEd I.D.

ENGL 318 ADVANCED INFORMATIONAL WRITING (3) Researching and writing professional documents, including reports, manuals, and technical publications. Projects individualized to meet student needs and interests. Prerequisite: ENGL 102. GenEd I.D.

ENGL 321 [511] MEDIEVAL BRITISH LITERATURE (3) Emphasis on the mystical writers, *Piers Plowman*, the *Gawain*-poet, and Arthurian literature. Prerequisite: two ENGL courses.

ENGL 322 [512] BRITISH MEDIEVAL AND RENAISSANCE DRAMA (3) Development of the drama, excluding Shakespeare, with emphasis on plays by Marlowe, Kyd, Jonson, Ford, and Webster. Prerequisite: two ENGL courses.

ENGL 323 [513] BRITISH RENAISSANCE LITERATURE (3) Cultural and political backgrounds with emphasis on Skelton, Wyatt, Surrey, Spenser, Sidney, Raleigh and Lodge. Prerequisite: two ENGL courses.

ENGL 324 [514] BRITISH LITERATURE OF THE LATER RENAISSANCE (3) Major intellectual and literary currents of 1600-1660 in the poetry of Donne, Herbert, Marvell, Jonson, and Milton, and the prose of Bacon, Browne, Burton and Hobbes. Prerequisite: two ENGL courses.

ENGL 325 18TH CENTURY BRITISH LITERATURE (3) Social and intellectual backgrounds, literary trends, and significant authors, such as Swift, Pope, Fielding, Johnson and Boswell, with emphasis on satire. Prerequisite: 2 ENGL courses.

ENGL 326 [516] LITERATURE OF THE BRITISH ROMANTIC PERIOD (3) Major writers from 1790 to 1830 such as Blake, Wordsworth, Coleridge, Byron, Shelley and Keats with emphasis on the philosophical and social backgrounds. Prerequisite: two ENGL courses.

ENGL 327 THE VICTORIAN AGE (3) Main currents of British literature and society, 1830-1901, with emphasis on Tennyson, Browning, Arnold, Carlyle, Ruskin, Dickens and Eliot. Prerequisite: two ENGL courses.

ENGL 331 [517] AMERICAN DRAMA (3) American drama from the Colonial Period to the present, with emphasis on 20th century plays by O'Neill, Williams, Miller, Bullins and Wilder. Prerequisite: two ENGL courses.

ENGL 336 POST-COLONIAL LITERATURE (3) Literature of colonized peoples from the beginning of colonization to the present. Focus may be on one area of the world such as Africa or the Caribbean. Prerequisite: two ENGL courses.

ENGL 341 [518] HISTORY AND LITERATURE OF THE OLD TESTAMENT (3) The chief books of the Old Testament and the Apocrypha studied from a literary and historical point of view. Prerequisite: two ENGL courses.

ENGL 342 [519] FOLKLORE AND LITERATURE (3) How and why literary artists draw plots, characters, themes, and motifs from traditional folk narratives. Distinctions between folk and literary tales. Focus on literary versions of classic fairy tales by such writers as Perrault, Baum, Coover, Carter, Yolen, and Sexton. Prerequisite: two ENGL courses.

ENGL 345 PERSPECTIVES IN WORLD DRAMA (3) A study of drama, the perspective to vary. Approaches may include Greek drama and its adaptation to the European stage; Oriental, Indian, African theatre; comparative drama; the genre as developed in various cultures. May be repeated for a maximum of 6 credits. Prerequisite: two ENGL courses.

ENGL 347 WORLD LITERATURE WRITTEN IN ENGLISH (3) Literature originally published in English from Africa, India, Australia, New Zealand, Canada, and the West Indies. Mainly 20th-century fiction, poetry, and drama. Prerequisite: two ENGL courses.

ENGL 350 [550] COMPARATIVE GRAMMAR (3) Study of English grammar: traditional, structural, transformational. Prerequisite: two ENGL courses.

ENGL 351 [501] HISTORICAL LINGUISTICS (3) An introduction to language typology and Indo-European philology; historical development of linguistics up to the 20th century. Prerequisite: two ENGL courses.

ENGL 353 [503] HISTORY OF AMERICAN ENGLISH (3) Origins and history of American dialects; development of elements of vocabulary, sounds, and grammar which distinguish American English, standards of American English. Prerequisite: two ENGL courses.

ENGL 361 LITERARY RESEARCH AND APPLIED CRITICISM (3) Bibliography and research methods and critical approaches to literature, with emphasis on the formalistic, social, psychological, and archetypal. Prerequisite: two ENGL courses.

ENGL 363 FILM AND LITERATURE (3) Comparative examination of the complex relationships between film and literature. Prerequisite: two ENGL courses.

ENGL 370 SPECIAL TOPICS: LITERATURE OF WOMEN (3) Selected works by and/or about women, with emphasis on themes, issues, or genres. Content varies. May be repeated for a maximum of 6 credits. Prerequisite: two ENGL courses.

ENGL 372 WOMEN WRITERS (3) Development of women's literary traditions in the work of 19th- and 20th-century British and American women, including Austen, Cather, Woolf and Lessing. Prerequisite: two ENGL courses.

- ENGL 373-379 THEMES IN LITERATURE (3) Thematic approach to selected works of American, British, and World literature. Content varies. May be repeated for a maximum of 6 credits. Prerequisite: two ENGL courses.
- ENGL 411 ADVANCED POETRY WRITING (3) Intensive study of form and technique. Portfolio development. Workshop format. Prerequisite: ENGL 102.
- ENGL 412 ADVANCED FICTION WRITING (3) Intensive study of form and technique. Portfolio development. Workshop format. Prerequisite: ENGL 312 or consent of instructor.
- ENGL 417-419 TOPICS IN WRITING (3) Specialized topics for writers of non-fiction, fiction and poetry. Content varies. May be repeated for a maximum of 6 credits. Prerequisite: two ENGL courses.
- ENGL 420 [520] DEVELOPMENT OF THE BRITISH NOVEL: 18TH CENTURY (3) Georgian fiction and its social background, especially works by Defoe, Richardson, Fielding, Smollett, Sterne and Austen. Prerequisite: two ENGL courses.
- ENGL 421 [521] DEVELOPMENT OF THE BRITISH NOVEL: 19TH CENTURY (3) Mainly Victorian fiction and its social background, especially works by Scott, the Brontës, Thackeray, Dickens, Eliot and Hardy. Prerequisite: two ENGL courses.
- ENGL 422 [522] DEVELOPMENT OF THE BRITISH NOVEL: 20TH CENTURY (3) Modern fiction and its social background, especially works by Joyce, Lawrence, Woolf, Forster, Waugh and Greene. Prerequisite: two ENGL courses.
- ENGL 423 [523] MODERN BRITISH POETRY (3) Emphasis on Hopkins, Hardy, Yeats, Auden, Spender, Sitwell, Thomas and Larkin. Prerequisite: two ENGL courses.
- ENGL 425 [525] CHAUCER (3) Major poems, especially *The Canterbury Tales* and *Troilus and Criseyde*. Prerequisite: two ENGL courses.
- ENGL 427 [527] SHAKESPEAREAN COMEDY (3) Shakespeare's development as a poet and dramatist in the comedies and romances. Prerequisite: two ENGL courses.
- ENGL 428 [528] SHAKESPEAREAN TRAGEDY (3) Shakespeare's development as a poet and dramatist in the histories and tragedies. Prerequisite: two ENGL courses.
- ENGL 429 [529] MILTON AND THE HUMANIST TRADITION (3) Major poetry and prose with emphasis on Milton's place in the humanist tradition. Prerequisite: two ENGL courses.
- ENGL 431 [531] LITERATURE OF THE AMERICAN ROMANTIC PERIOD (3) Social and political backgrounds, 1819-1860, important literary ideas, criticism, and major authors, such as Irving, Cooper, Emerson, Thoreau, Hawthorne, Melville, and Poe. Prerequisite: two ENGL courses.
- ENGL 432 [532] LITERATURE OF THE AMERICAN REALISTIC PERIOD (3) Major writers, such as Dickinson, Twain, Crane, and James; important secondary writers; social and political backgrounds; important literary ideas and criticism, 1860-1914. Prerequisite: two ENGL courses.
- ENGL 433 [533] AMERICAN SHORT STORY (3) Authors and schools, such as Irving, Hawthorne, Poe, Hemingway, Welty, Wright, Porter, local color writers, realists, and naturalists. Prerequisite: two ENGL courses.
- ENGL 435 [535] DEVELOPMENT OF THE AMERICAN NOVEL: 19TH CENTURY (3) Major novelists, such as Cooper, Melville, Hawthorne, Twain, Howells, James and Crane. Prerequisite: two ENGL courses.
- ENGL 436 [536] DEVELOPMENT OF THE AMERICAN NOVEL: 20TH CENTURY (3) Major novelists, such as Wharton, Fitzgerald, Faulkner, and Ellison. Prerequisite: 2 ENGL courses.
- ENGL 437 [537] AMERICAN POETRY THROUGH FROST (3) Puritan beginnings through the early 20th century, with emphasis on Emerson, Poe, Whitman, Dickinson, and Frost. Prerequisite: two ENGL courses.
- ENGL 438 [538] MODERN AMERICAN POETRY (3) Poetic movements from the 1920s to present, and major poets, such as Eliot, Stevens, Williams, Lowell, Plath, and Rich. Prerequisite: two ENGL courses.
- ENGL 439 MODERN WORLD POETRY (3) International poets of the 20th century, such as Rainer Maria Rilke, Eugenio Montale, and Octavio Paz, and related literary movements. Prerequisite: two ENGL courses.
- ENGL 441 [541] MODERN FICTION TO WORLD WAR II (3) Work of the modern masters of fiction, with emphasis on Proust, Mann, and Joyce. Prerequisite: two ENGL courses.
- ENGL 442 [542] MODERN FICTION SINCE WORLD WAR II (3) Works of the significant writers — English, American, and Continental — of the past 50 years, including such figures as Grass, Robbe-Grillet, Solzhenitsyn, and Burgess. Prerequisite: two ENGL courses.
- ENGL 451 [551] HISTORY OF THE ENGLISH LANGUAGE (3) Changes and reasons for the changes in grammar, sound, and vocabulary of the language from Old English to modern times. Prerequisite: two ENGL courses.
- ENGL 452 [552] STRUCTURE OF THE ENGLISH LANGUAGE (3) A linguistic approach to sounds, forms, syntax, and usage. Prerequisite: 2 ENGL courses.
- ENGL 461 [561] HISTORY OF LITERARY CRITICISM (3) Major statements, literary theory from Aristotle to the present, including Horace, Sidney, Johnson, Coleridge, Eliot, and Frye. Prerequisite: two ENGL courses.
- ENGL 462 MODERN LITERARY THEORY (3) Intensive study of modern literary models, including formalism, structuralism, deconstruction, hermeneutics, and feminism. Prerequisite: two ENGL courses.
- ENGL 465 [565] BRITISH AND AMERICAN PROSE (3) Nonfiction prose, with emphasis on form and style. Prerequisite: two ENGL courses.
- ENGL 469 STUDIES IN ONE OR TWO AUTHORS (3) Intensive examination of significant writer or comparative treatment of two. Frequently studied writers include D.H. Lawrence, Virginia Woolf, William Faulkner, and Emily Dickinson. May be repeated for a maximum of 6 credits under different topics.
- ENGL 471 [571] TOPICS IN WORLD LITERATURE (3) Authors, periods, genres, or conventions. Content varies. May be repeated for a maximum of 6 credits. Prerequisite: two ENGL courses.
- ENGL 472 [572] TOPICS IN BRITISH LITERATURE (3) Authors, periods, genres, or conventions. Content varies. May be repeated for a maximum of 6 credits. Prerequisite: two ENGL courses.
- ENGL 473 [573] TOPICS IN AMERICAN LITERATURE (3) Authors, periods, genres, or conventions. Content varies. May be repeated for a maximum of 6 credits. Prerequisite: two ENGL courses.
- ENGL 475 [575] TOPICS IN LINGUISTICS (3) Topics and issues in contemporary linguistics theory, with particular attention to recent interdisciplinary subspecialty developments: psycholinguistics, sociolinguistics, etc. Topics vary. Prerequisite: one linguistics course or consent of the instructor. May be repeated for a maximum of 6 credits.
- ENGL 476 [576] TOPICS IN MULTI-ETHNIC AMERICAN LITERATURE (3) Possible topics include women in ethnic literature, Jewish writers, the Catholic novel. Content varies. May be repeated for a maximum of 6 credits. Prerequisite: two ENGL courses.
- ENGL 477 TOPICS IN BLACK AMERICAN LITERATURE (3) Authors, periods, genres, or conventions. Content varies. May be repeated for a maximum of 6 credits. Prerequisites: two ENGL courses.
- ENGL 485-486 [585-586] SEMINAR IN LITERARY STUDIES (3) Intensive study of one area of British, American, or World literature, e.g., a specific author, period, school, or genre. Content varies. May be repeated for a maximum of 6 credits. Prerequisite: junior standing.
- ENGL 490 [590] DIRECTED STUDIES IN ENGLISH (3) Independent reading of a specific author, period, topic, problem, or school of literature. Topic selected by student in consultation with professor. May be repeated for a maximum of 6 credits. Prerequisites: 18 hours in English, or 12 hours in English and 6 in a related discipline; minimum 3.00 average in English and the related discipline; consent of department chair and instructor.
- ENGL 494 [594] TRAVEL AND STUDY (3-6) Places and topics to be selected by student in consultation with instructor. Prerequisite: two ENGL courses.
- ENGL 497 ENGLISH PRACTICUM (3) Professional experience in such areas as editing, research, and tutoring directed by a member of the faculty or staff of the university. ENGL 497 and 498 may be repeated or taken in combination for a maximum of 6 credits. No credit toward English major or minor. Graded S/U. Prerequisite: consent of English Internship/Practicum coordinator.
- ENGL 498 ENGLISH INTERNSHIP (3) On-the-job experience in research, editing, and writing in government, public relations, journalism, industry, and other professional positions. ENGL 497 and 498 may be repeated or taken in combination for a maximum of 6 credits. No credit toward English major or minor. Graded S/U. Prerequisite: consent of English Internship/Practicum coordinator.

ENGL 499 HONORS THESIS (4) Intensive treatment of a topic in such areas as literary criticism, creative writing, and expository writing chosen by the student in consultation with the thesis adviser. Restricted to candidates for Honors in English.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL)

ESOL 105 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES: INTERMEDIATE (3) Advanced grammar review with emphasis on sentence and short-paragraph construction.

ESOL 106 ENGLISH FOR SPEAKERS OF OTHER LANGUAGES: ADVANCED (3) Introduction to English style; emphasis on reading and writing skills. Prerequisite: ESOL 105 or permission of ESOL coordinator.

ESOL 107 LISTENING AND SPEAKING FOR ADVANCED ESOL STUDENTS (3) Intensive listening and speaking practice for high intermediate and advanced students of ESOL; formal oral presentation pronunciation and conversation practice. Prerequisite: examination or consent of professor.

ENVIRONMENTAL SCIENCE (ENVS)

Upper Division

ENVS 471 SPECIAL TOPICS IN ENVIRONMENTAL SCIENCE/STUDIES (3) Quantitative investigation and solution of environmental problems. Prerequisites: four courses in Biological, Physical, and/or Earth Sciences; two semesters of Mathematics (MATH 119 and above); and consent of instructor.

ENVS 482 ENVIRONMENTAL RESEARCH (3) Independent investigation of an environmental problem/question. This course cannot be taken for credit for the Environmental Science and Studies (ESS) major if ENVS 485 has been taken. Paper and public presentation required. Prerequisites: ESS major, junior or senior standing and consent of instructor.

ENVS 485 ENVIRONMENTAL INTERNSHIP (3) Supervised work experience; practical application of environmental science and studies in business, industry, public or private agencies. Cannot be taken for credit for the Environmental Science and Studies major if ENVS 482 has been taken. Special permit and co-op fee required. Prerequisites: ESS major, junior or senior standing, 2.5 QPA in ESS required courses and consent of internship coordinator. Graded S/U.

ENVS 491 SENIOR SEMINAR (3) Capstone course for the major in Environmental Science and Studies. Synthesis and analysis of information from a broad range of perspectives. Prerequisites: ESS major, ENGL 318 and senior standing.

FAMILY STUDIES (FMST)

Lower Division

FMST 101 INTRODUCTION TO FAMILY STUDIES (3) An interdisciplinary look at family studies. Prerequisite: none.

Upper Division

FMST 301 FAMILY RELATIONSHIPS (3) Family dynamics along the continuum of family development and across generations. Focusing on family communication, conflict management and education. Prerequisites: FMST 101 and PSYC 101 or SOCI 106.

FMST 302 THEORIES OF FAMILY FUNCTIONING (3) An overview of family functioning theory, including behavioral, cognitive, experiential, structural, and strategic theories. Prerequisites: FMST 101 and PSYC 101 or SOCI 101.

FINANCE (FIN)

Upper Division

FIN 331 PRINCIPLES OF FINANCIAL MANAGEMENT (3) Introductory course designed to provide students with the fundamental concepts underlying the theory of finance. Financial markets, security, valuation, analysis of financial condition, forecasting, working capital management, capital budgeting, cost of capital, leverage, optimal capital structure, dividend policy. Prerequisites: junior/major standing; MATH 231 or ECON 205, ACCT 201 or 211 and ACCT 202 or 212, ECON 201 or ECON 203, ECON 202 or ECON 204. Special permit required.

FIN 332 ADVANCED FINANCIAL MANAGEMENT (3) In-depth financial theory and analysis in selected areas. Topic includes CAPM, cost of capital, optimal capital structure, dividend policy, capital budgeting, mergers and acquisitions, working capital management. Prerequisite: FIN 331.

FIN 333 INVESTMENTS AND SECURITIES ANALYSIS I (3) Analysis of financial assets, including equities and fixed income instruments. Topics include securities valuation, use of fundamental and technical analysis, and portfolio management. Valuation of government and corporate securities, institutional factors, security analysis, portfolio management. Prerequisite: FIN 331.

FIN 337 FINANCIAL ANALYSIS (3) Financial statement analysis, working capital management and financial forecasting. Prerequisite: FIN 331.

FIN 341 FUNDAMENTALS OF FINANCIAL PLANNING (3) Introductory course designed to provide students with an overview of the financial planning process. Topics include setting client goals and objectives, investment planning, tax planning, insurance and risk management, and estate planning. Overview of personal financial planning.

FIN 343 INSURANCE AND RISK MANAGEMENT (3) The role of insurance as a risk management tool. Topics include the use of life insurance, health insurance, and disabilities insurance to reduce a client's overall exposure to risks. Prerequisite: FIN 341.

FIN 345 TAX PLANNING (3) Tax planning, individual taxation, terminology, and computation. Prerequisite: FIN 341.

FIN 423 INVESTMENTS AND SECURITIES ANALYSIS II (3) An in-depth analysis of fixed income securities, swaps, options, futures, and forward contracts. Analyzing financial securities, determining their values and use of specific financial goals, emphasizing non-traditional securities. Prerequisites: FIN 331 and FIN 333.

FIN 430 CAPITAL MARKETS AND MANAGEMENT OF FINANCIAL INSTITUTIONS (3) Capital markets and financial institutions, risk management of financial institutions, asset and liability management, profitability management. Prerequisites: FIN 331 and FIN 333.

FIN 433 PORTFOLIO MANAGEMENT (3) Theory and practice in investment portfolio assembly and revision. Mathematical modeling, measurement of performance, options and futures hedging. Prerequisite: FIN 333.

FIN 435 INTERNATIONAL FINANCE (3) Framework of international finance, including balance of payments, foreign exchange, foreign money and capital markets, and financial management of the multinational corporation. Prerequisite: FIN 331.

FIN 439 FINANCIAL POLICY (3) Case approach to qualitative and quantitative issues in finance. Analysis of financial condition, forecasting, asset and liabilities management, leasing, hedging, business combinations, reorganization and bankruptcy. Prerequisites: FIN 332, FIN 333, FIN 435, senior status.

FIN 441 RETIREMENT PLANNING AND EMPLOYEE BENEFITS (3) Designed to provide students with the background necessary to assist clients in planning for their retirement. Provide students with an understanding of the contributions employee benefits plans make toward achieving financial independence. Developing a systematic approach to estimating contribution plans, IRA, 401K, tax-sheltered annuities, and government programs. Prerequisite: FIN 341.

FIN 443 ESTATE PLANNING (3) Effects of federal tax system and other factors impacting estate planning. Prerequisite: FIN 341.

FIN 445 ETHICAL ISSUES IN FINANCE (3) Moral and ethical issues confronting finance professionals. Prerequisite: junior standing.

FIN 470 TOPICS IN FINANCE (3) In-depth study of contemporary issues in finance. Course content varies with each topic. May be repeated for credit provided a different topic is covered. Prerequisite: FIN 332.

FIN 491 SEMINAR IN FINANCE (3) Selected areas of interest in the field of finance. Course content varies. Prerequisite: FIN 332.

FIN 495 INDEPENDENT RESEARCH IN FINANCE (1-3) Directed in-depth academic research in finance in a specific area of joint faculty member/student interest. May be repeated for a maximum of 6 credits. Prerequisites: FIN 332; minimum 2.50 cumulative QPA, consent of instructor and chair. Special permit.

FIN 496 PRACTICUM IN CORPORATE FINANCE (3) Capstone application of knowledge, skills, and attitudes through professional experience. Prerequisites: FIN 332, FIN 337, and FIN 423.

FIN 497 INTERNSHIP IN FINANCE (1-3) Students are required to work in assigned projects in business environments. Graded S/U. May be

repeated for a maximum of 6 credits. Prerequisites: FIN 331, declared CBE major with Finance. Minimum of 2.50 cumulative GPA. Consent of instructor and chair. Special permit.

- FIN 498 PRACTICUM IN FINANCIAL SERVICES (3)** Synthesizes essential financial planning elements of knowledge, skills and attitudes through professional experience. Prerequisites: FIN 333, FIN 341, FIN 343, FIN 345 and FIN 441.

FRENCH (FREN)

Lower Division

- FREN 101-102 FRENCH ELEMENTS I, II (3,3)** A thorough foundation in grammar, drills in pronunciation; documentary conversation; composition and translation; introduction to French culture. GenEd II.C.1.
- FREN 201-202 FRENCH INTERMEDIATE I, II (3,3)** Review of grammar; conversation, and prose composition; translation of texts of cultural value; outside readings. Conducted in French. Prerequisites: FREN 101-102 or equivalent. GenEd II.C.3.

Upper Division

- FREN 301-302 FRENCH COMPOSITION AND CONVERSATION I, II (3,3)** Intensive exercises in French composition and conversation beyond the intermediate level. Conducted in French. Prerequisites: FREN 201-202 or equivalent. GenEd II.C.3.
- FREN 303 FRENCH STYLISTICS (3)** Development of writing skills with stress on language structure and important aspects of style. Conducted in French. Prerequisites: FREN 301-302 or equivalent.
- FREN 305 CONVERSATION IN FRENCH (3)** Open to non-native speakers of French who have a basic knowledge of French but need to develop oral fluency. Prerequisite: at least three years of high school French, or two years of college French, or equivalent, or consent of instructor.
- FREN 311-312 FRENCH CULTURE AND CIVILIZATION I, II (3,3)** French civilization from its origins: history, geography, institutions and the arts. Contemporary France, its geography, recent history, social, economic, political and judicial institutions. Conducted in French. Prerequisites: FREN 301-302 or equivalent.
- FREN 321-322 SURVEY OF FRENCH LITERATURE I, II (3,3)** French literature from *Chanson de Roland* to the present. Conducted in French. Prerequisites: FREN 201-202 or equivalent.
- FREN 331 FRENCH FOR BUSINESS (3)** Introduction to French business and economy, with practice in functional spoken and written transactions in French. Prerequisites: FREN 201-202 or equivalent or consent of instructor.
- FREN 341 FRENCH LISTENING COMPREHENSION PRACTICE (1)** Practice in understanding spoken French, using recorded interviews, conversations, new programs from French radio, television, films, or videotapes. Prerequisite: FREN 301 or equivalent.
- FREN 351 INTRODUCTION TO TRANSLATION: FRENCH TO ENGLISH (3)** Training in translation, principally French to English, from magazines and books from a wide variety of disciplines. Prerequisites: FREN 301-302 or equivalent.
- FREN 370-379 SPECIAL TOPICS IN FRENCH (3-6)** Specialized topics in language and culture. Content varies. May be repeated once for credit provided a different topic is covered. Prerequisite: FREN 202 or equivalent.
- FREN 391 ADVANCED FRENCH GRAMMAR (3)** French syntax, idiomatic construction, word formation. Conversation, oral, and written drill. Conducted in French. Prerequisites: FREN 301-302.
- FREN 401 [501] FRENCH PHONETICS (3)** Correction of French pronunciation and analysis of spoken French based on phonological theory. Prerequisites: FREN 301-302.
- FREN 402 [502] APPLIED FRENCH LINGUISTICS (3)** Phonetics, morphology, syntax, points of interference. Linguistic study relating to methodology for French teachers. Prerequisites: FREN 301-302 or equivalent.
- FREN 411 [511] THE FRENCH NOVEL (3)** Study of the French novel and narrative techniques from the 17th century to the present. Conducted in French. Prerequisites: FREN 321-322 or equivalent.
- FREN 421 [521] FRENCH LITERATURE OF THE 17TH CENTURY I (3)** Selected works from France's major classical writers. Conducted in French. Prerequisites: FREN 321-322.
- FREN 425 [525] FRENCH LITERATURE OF THE 18TH CENTURY (3)** Principal works of the major writers presented in their literary, sociological and philosophical context. Conducted in French. Prerequisites: FREN 321-322.
- FREN 431 [531] FRENCH LITERATURE OF THE 19TH CENTURY**

(3) Selected works of major writers and of literary movements: Romanticism, Realism, Naturalism and Symbolism. Conducted in French. Prerequisites: FREN 321-322.

- FREN 441 [541] FRENCH LITERATURE OF THE 20TH CENTURY (3)** The evolution from fin de siècle to the present day of the novel, the theatre, and poetry as reflections of the artistic and philosophical developments leading to the modern age. Shifting emphasis from semester to semester. Conducted in French. Prerequisites: FREN 321-322 or equivalent.
- FREN 461 [561] FRENCH DRAMA (3,3)** Development of the French theatre from medieval to modern times; its literature and staging, illustrated by representative plays. Shifting emphasis from semester to semester. Conducted in French. Prerequisites: FREN 321-322.
- FREN 470-479 [570-579] SPECIAL TOPICS IN FRENCH (3)** Discussion of a central topic with changing emphasis from year to year. May be repeated for credit provided a different topic is covered. Prerequisites: FREN 321-322 or equivalent.
- FREN 491 [591] DIRECTED READINGS IN FRENCH LITERATURE (1-3)** Reserved for superior students under the guidance of a departmental adviser. May be repeated for a maximum of 9 credits. Conducted in French. Prerequisites: at least 3 credits of literature study at the 400 level, consent of department chair.
- FREN 492 [592] DIRECTED READINGS IN FRENCH (1-3)** Similar to FREN 491 with concentration on a different subject matter. Conducted in French. Prerequisites: at least three credits of literature study at the 400 level, consent of department chair.
- FREN 493 HONORS DIRECTED READINGS (3)** Individual readings and background research under direction of a faculty member in preparation for writing an honors thesis. Prerequisite: admission to the departmental Honors Program. (UG)
- FREN 494 TRAVEL AND STUDY ABROAD (3-16)** Study at a French university. Students will live and take courses at the University of Tours, France. Dates: February through June (one semester). Prerequisites: three years of college French or equivalent; consent of department chair.
- FREN 495 INTERNSHIP FOR PROFICIENCY IN FRENCH (3)** Supervised experience in a work setting providing students the opportunity to apply classroom learning and skills outside the academic world. Students receive 3 credits for 8 hours of work per week. Junior or senior undergraduate students in good academic standing and who meet the requirements established for Proficiency in French should apply for membership during the month of November for the spring semester and during the month of April for the fall semester. Prerequisites: open only to students who are enrolled in the Proficiency in French program and who have complied with the program regulations; written consent of the program coordinator.
- FREN 497 INTERNSHIP IN FRENCH (3)** Designed to give training and experience using French in working with government, business, and industry in Maryland or Washington, D.C. under professional supervision. Prerequisites: junior or senior standing French majors (professional track) only, and completion of at least 27 credits above 300-level courses. Written consent of program coordinator.
- FREN 499 HONORS THESIS IN FRENCH (3-6)** Writing of an honors thesis based on individual research. Open only to advanced honors candidates. Prerequisite: FREN 493.

GENERAL STUDIES (GENL)

Lower Division

- GENL 121 PERSONAL LIFE AND CAREER PLANNING (2)** To enable students to understand their role in the world of work, develop a sense of career directionality and maturity, explore concepts related to successful career choice, begin to take action toward achieving satisfactory life planning, in the context of a decision-making format.
- GENL 241 THE ETHNIC EXPERIENCE IN AMERICA (3)** Focuses on Baltimore's ethnic groups as a microcosm of American society and examines the interaction of ethnic communities (Black, Jewish, Italian, Greek, Eastern-European, Irish, and others) in Baltimore. The interdisciplinary approach will use the talents of social scientists, community representatives, and public school personnel as consultants and guest lecturers.

Upper Division

- GENL 401 [501] TOPICS IN SOCIAL SCIENCE (3)** Issues and problems to be selected by the instructor and studied from the multiple approaches of various social sciences. Prerequisite: 15 hours in the social sciences.

GEOGRAPHY (GEOG)**Lower Division**

GEOG 101 PHYSICAL GEOGRAPHY (3) Introductory spatial analysis of fundamental terrestrial natural phenomena, including their impact on humanity. Emphasis on Earth planetary motions, weather and climate, landforms, soils and vegetation. GenEd II.A.1.

GEOG 102 WORLD REGIONAL GEOGRAPHY (3) Survey of world regions identifying geographical features and area and their significance. GenEd II.D.

GEOG 105 GEOGRAPHY OF INTERNATIONAL AFFAIRS (3) An introductory survey of the changing political map of the world with special emphasis on a geographical comprehension of the major regions of international cooperation and conflict. GenEd II.D.

GEOG 109 INTRODUCTION TO HUMAN GEOGRAPHY (3) Uses the analytical approach of social sciences in the study of institutions of human society to reveal spatial patterns in the responses of people to basic problems and needs. GenEd II.C.2.

GEOG 110 HONORS INTRODUCTION TO HUMAN GEOGRAPHY (3) Uses the analytical approach of social sciences in the study of institutions of human society to reveal spatial patterns in the responses of people to basic problems and needs. Emphasis on discussion and analyses of problems. Prerequisite: Honors status. GenEd II.C.2.

GEOG 221 INTERPRETATION OF MAPS (3) Introduction to map elements and map interpretation; study of various types of maps, index systems, and general application of maps in geography.

GEOG 223 PHYSICAL GEOGRAPHY APPLICATIONS (3) Fundamental concepts explored through laboratory exercises, including earth-sun relationships, weather, and climate systems, and landform characteristics. Prerequisites: GEOG 101 and GEOG 221.

GEOG 230 UNDERSTANDING AND COMMUNICATING THROUGH MAPS (3) Maps and graphs as effective media for visual presentation and analysis of geographic data.

GEOG 251 INTRODUCTION TO PLANNING (3) The sequential origins of planning and urban design, a study of contemporary planning practice, and an analysis of the social, economic and political context of plan formulation and implementation.

GEOG 270-279 TOPICS IN PLANNING AND GEOGRAPHY (3) Investigation of various geographic and planning issues. Emphasis on analytical skills through readings and research design. Topics to be announced. May be repeated for credit provided a different topic is covered.

Upper Division**Systematic Courses**

GEOG 315 GEOMORPHOLOGY (4) Detailed analysis of the formation, surficial characteristics, and global distributions of the earth's landforms. Labs emphasize interpretation of landform assemblages through use of topographic maps and aerial photographs. Cannot be taken for credit by students who have received credit for PHSC 222 or GEOG 371. Prerequisite: 6 hours of geography and/or geology, including either GEOG 101 or PHSC 121.

GEOG 317 [502] ENERGY RESOURCES (3) Spatial patterns of traditional and alternative forms of energy will be analyzed. The many facets of the energy problem will be analyzed, including physical deposits, economic variables, public policy implication, and geographical patterns. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 319 [503] SOILS AND VEGETATION (3) A resource study of the world's soils and plant formations with emphasis placed upon their genesis and spatial differentiations. Prerequisites: Geography 101 and one of the following: CHEM 101, BIOL 110, BIOL 201, or 205.

GEOG 329 MEDICAL GEOGRAPHY (3) A study of health problems viewed as imbalances in the interrelationships between humans and elements of their environment, both the physical and cultural. Emphasis is placed on gaining an overview of the field through a comprehension of the application of geographic principles and techniques to the study of human health problems. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 355 [510] HISTORICAL GEOGRAPHY OF URBANIZATION (3) Spatial and temporal development of urbanization and urban morphology from the rise of civilization in the ancient Near East to the contemporary post-industrial city. The entire scope of urban functions is surveyed, with the emphasis on the city as a human-made environment. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 357 [511] CULTURAL GEOGRAPHY (3) Study of origins and diffusion of cultures and the resulting impact in creating the world's contrasting cultural landscapes. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 359 [512] ECONOMIC GEOGRAPHY (3) Designed to explain the location of economic activities through a series of principles and theories. Emphasis is on the various sectors of the economy, transportation, and economic development. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 363 [513] SPATIAL ORGANIZATION OF ECONOMIC ACTIVITY (3) Provides an intermediate level coverage of the organization of the economy of space. Draws from basic regional economics to illustrate and explain the geographical patterns of land use, industry, service activities, and regional patterns of economic development. Prerequisite: 6 hours of geography including GEOG 359.

GEOG 371 [514] ADVANCED PHYSICAL GEOGRAPHY (4) Detailed analysis of characteristics, distribution, and geographical significance of the earth's landforms. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 373 [515] CLIMATOLOGY (3) Analysis of the character, causes, and global distribution of climatic types, chiefly employing the Koppen classification system. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 375 [516] QUANTITATIVE METHODS IN GEOGRAPHY (3) Focus on statistical problems associated with the analysis of geographic data. Emphasis on the unique spatial problems of point pattern analysis, area association, and regionalization. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 377 [517] DESCRIPTIVE METEOROLOGY (4) An introduction to the various meteorological elements. Emphasis is placed on the interaction of solar energy, pressure, wind, and moisture in creating weather patterns. Three hours of lecture and two hours of laboratory. Field work may be required. Prerequisite: 6 hours of natural science or geography or the equivalent.

GEOG 381 [519] POLITICAL GEOGRAPHY (3) Effect of political groupings upon human use of the world, and the influence of the geographic base upon political power. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 383 NATURAL RESOURCES AND SOCIETY: A GEOGRAPHIC PERSPECTIVE (3) Social and environmental dimensions of natural resources, their management, and misuse from a geographic perspective. Prerequisites: ENGL 102, 6 hours of geography. GenEd I.D.

GEOG 385 [520] POPULATION GEOGRAPHY (3) General population theory, data sources for population geographers, and the processes of fertility, mortality, and migration. Patterns of population growth and change viewed from both temporal and geographical perspectives. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 391 [522] URBAN SYSTEMS (3) Survey of the structure, functions, forms, and development of urban units. Emphasis upon the locational features of social, economic, and cultural phenomena. Field work. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 393 TRANSPORTATION AND INFRASTRUCTURE PLANNING (3) Transportation, water supply, wastewater treatment, and solid waste management systems, their role in the growth and development of urban areas. Policies, programs and infrastructure planning. Prerequisite: GEOG 391 or consent of instructor.

GEOG 399 GEOGRAPHICAL LITERATURE AND SOURCE MATERIALS (3) Library access to texts, graphics, maps, photos, the Internet and the World Wide Web. Prerequisite: consent of instructor. Not open to students who have successfully completed GEOG 299.

GEOG 401 [551] GROWTH OF GEOGRAPHIC THOUGHT (3) History, nature, and methodology of geography as a discipline. Analysis of schools of geographic thought: critical evaluation of important geographic work. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 405 [553] COMPREHENSIVE PLANNING (3) The integration of separate urban systems into the comprehensive design of an urban region. Special emphasis will be placed on neighborhood, community and town planning. Field work may be required. Prerequisites: GEOG 391 or equivalent and consent of instructor.

GEOG 407 THE GEOGRAPHY OF THE AGED (3) The aged have emerged in contemporary society as a significant minority group. Elements responsible for the increase in the numbers of older Americans will be examined as well as the forces affecting the distribution of the aged. Particular emphasis will be given to the locational problems of older people in urban areas. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 409 APPLIED CLIMATOLOGY (3) The effects of world climatic patterns on the human and physical environment are analyzed. Special emphasis is devoted to the interactions between climate and the urban environment. Prerequisites: GEOG 373, GEOG 377 or consent of instructor.

GEOG 410 ENVIRONMENTAL GEOGRAPHY (3) Energy, water, and mass budgets at the surface of the earth. Prerequisites: GEOG 101 and 3 credits from one of the following disciplines: BIOL, CHEM, PHYS, PHSC or GEOL.

GEOG 411 [557] STUDIES IN NATURAL HAZARDS (3) The nature, frequency of occurrences, and distribution of environmental hazards and their impacts on humans. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 415 [559] GEOGRAPHICAL ASPECTS OF POLLUTION (3) A systematic study of the spatial aspects of air and water pollution, with special emphasis on pollution in the Greater Baltimore area. Field trips will be conducted to pollution sites and pollution control agencies within the local area. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 417 OUTDOOR RECREATION AND PLANNING MANAGEMENT (3) A study of outdoor recreation in terms of relationships of people, land and leisure. Emphasis on the principles of planning, designing and maintaining outdoor recreation areas and facilities. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 484 LAND USE PLANNING (3) Contemporary land use planning emphasizing the problematic nature of land development, the environmental land use planning process, and related growth management, issues and techniques. Prerequisite: GEOG 251 or consent of instructor.

Technique Courses

GEOG 321 [504] INTERPRETATION OF AERIAL PHOTOGRAPHS (3) Reading and interpretation of aerial photographs. The application of the aerial photograph in the fields of geography, geology, and photogrammetry.

GEOG 323 [505] CARTOGRAPHY AND GRAPHICS I (3) Study in design, construction and effective application of maps and charts for analysis and publications; practical exercises in the use of cartographic tools, materials and techniques.

GEOG 324 [506] CARTOGRAPHY AND GRAPHICS II (3) Continued exercises in map graphics and aerial distribution maps. New techniques in presentation of graphic data and spatial relationships. Prerequisite: GEOG 323.

GEOG 341 [508] TECHNIQUES AND MATERIALS FOR GEOGRAPHY TEACHERS (3) A systematic review of geographic concepts in relation to interdisciplinary studies in the physical and social sciences. Examination of the content of geography and problems of presentation.

GEOG 412 [518] INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (3) Hardware and software for the storage, retrieval, manipulation, analysis and display of data, emphasizing raster-based geographic information systems. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 414 [523] GIS APPLICATIONS (3) Vector-based GIS software for solving real world problems. Prerequisite: GEOG 412 or consent of instructor.

GEOG 416 PRINCIPLES OF REMOTE SENSING AND DIGITAL IMAGE PROCESSING (3) Obtaining quantitative information from remotely sensed images; visual and automated techniques in study of spatial and environmental relationships. Prerequisite: 6 hours of geography or consent of instructor.

Regional Courses

GEOG 420 [560] GEOGRAPHY OF ANGLO AMERICA (3) Physical and cultural landscapes of the United States and Canada including patterns of economic development of each region and their relationship to their environmental setting. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 423 [561] GEOGRAPHY OF MARYLAND (3) Physical and human geographical elements of the Maryland landscape which explain current patterns and environmental problems. Particular emphasis on historical geographical background of the present landscape. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 424 HISTORICAL GEOGRAPHY OF ATLANTIC CANADA (3) The development of the Atlantic Provinces is followed through to the period of Confederation in 1867 with an emphasis on the pivotal role the area played in the geopolitical interests of France and Britain in North America. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 427 THE GLOBAL ECONOMY (3) Geographical patterns of spatial interactions in the global economy; roles of the state, transnational corporations, and intergovernmental organization. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 431 [562] GEOGRAPHY OF AFRICA (3) A systematic and regional approach to the study of people and environment of Africa, south of the Sahara. Special focus is placed on the distribution of natural resources and the historical-political development of each country as important background for the understanding of current African affairs. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 443 [564] GEOGRAPHY OF EAST ASIA (3) Regional studies of the physical and cultural foundations in China, Japan and Korea. Emphasis upon human and economic resources and role in world affairs. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 445 GEOGRAPHY OF SOUTH AND SOUTHEAST ASIA (3) Regional studies of the physical and cultural foundations of India, Pakistan, Sri Lanka, Philippines and Indonesia. Principal human and economic resources, problems of development, and role in world affairs. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 447 [565] GEOGRAPHY OF THE MIDDLE EAST (3) Analysis of Southwest Asia and North Africa, including major natural and cultural resources, related patterns of spatial organization, economic and political development, and associated problems. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 448 CONFLICT IN IRELAND (3) An analysis of attempted and proposed solutions to the Irish conflict based on physical and cultural elements of the island's historical geography. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 451 [566] GEOGRAPHY OF EUROPE (3) Regional analysis and appraisal of the human geography and natural resources of Europe. Problems of nationality, economic development, and cultural conflicts. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 453 [567] GEOGRAPHY OF THE FORMER USSR (3) Physical and cultural patterns and their bearing on the former Soviet Union as a world power. Regional distribution and use of natural and human resources in agriculture and industry. Problems in economic development and production. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 461 [568] GEOGRAPHY OF LATIN AMERICA (3) Analysis of Latin America focuses on the interrelationships between physical and cultural elements which provide a diversity of human habitats throughout the region. May be repeated for a maximum of 6 credits. Prerequisite: 6 hours of geography or consent of instructor.

Seminars and Special Courses

GEOG 470-479 [570-579] SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3) Reading and research in selected topics in the field of geography. Seminar topics will be announced. May be repeated for credit provided a different topic is covered. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 481 ENVIRONMENTAL IMPACT ANALYSIS (3) The collection, collation, analysis, and incorporation of physical, social, biological, and economic information for the reviewing and the preparing of environmental impact statement (EIS) reports. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 491 [582] GEOGRAPHY/ENVIRONMENTAL PLANNING INTERNSHIP (1-6) Supervised placement and research in selected public and private agencies at appropriate institutions. May be repeated for a maximum of 6 credits. Prerequisite: consent of chair and 6 hours of geography.

GEOG 493 [583] FIELD GEOGRAPHY (2-6) Practical laboratory experience in techniques in the collection and analysis of data by observations, measurements, mapping, and photographic records.

Such techniques are to be applied to selected geographic problems. Prerequisite: 6 hours of geography or consent of instructor.

GEOG 494 [584] TRAVEL AND STUDY (3-6) Countries and topics to be selected by departments and instructors sponsoring the program. For complete information contact the chair of the department. May be repeated for a maximum of 6 credits. Prerequisite: consent of instructor.

GEOG 495 [585] DIRECTED READING IN GEOGRAPHY (3) Independent reading in selected areas of geography. Open by invitation of the department to students taking a major or minor in Geography. May be repeated for a maximum of 6 credits. Prerequisites: 15 hours in geography and a minimum average of 3.00 in geography.

GEOG 496 [586] INDEPENDENT STUDY IN GEOGRAPHY (1-6) Independent research, study, or field experience under supervision of a member of the geography faculty. Designed for advanced students who wish to conduct independent investigations on aspects of geography which are of special interest or not covered in other courses. Registration arranged with department chairperson. May be repeated for a maximum of 6 credits. Prerequisite: advanced undergraduate standing with at least 18 hours of geography or graduate standing.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

GEOLOGY (GEOL)

Lower Division

GEOL 121 PHYSICAL GEOLOGY (4) Composition and structure of the earth; the internal and external forces acting upon it and the surface features resulting. Laboratory studies of common rocks and minerals, geologic and topographic maps and aerial photographs. Field trips required. Three lecture hours and two laboratory hours per week. Not open to students who successfully completed PHSC 121. GenEd II.A.1.

GEOL 123 HISTORICAL GEOLOGY (4) The history and development of the continents and ocean basins and the evolution of life on earth will be discussed based upon information obtained from the sedimentary rock record. Field trips required. Not open to students who successfully completed PHSC 123. Prerequisite: GEOL 121. GenEd II.A.1.

Upper Division

GEOL 305 [505] ENVIRONMENTAL GEOLOGY (4) Earth's natural surface systems (hydrologic, atmospheric and climatic); causes and extent of human modifications; potential solutions to resulting problems. Prerequisite: GEOL 121.

GEOL 321 [521] STRUCTURAL GEOLOGY (4) The identification and analysis of tectonic forms to determine the physical conditions of formation and the context of historical geological events in which they occur. Not open to students who successfully completed PHSC 321. Prerequisites: GEOL 121 and PHYS 211 or equivalent.

GEOL 323 GEOMORPHOLOGY (4) Detailed analysis of the formation, surficial characteristics, and global distribution of the earth's landforms. Labs emphasize interpretation of landform assemblages through use of topographic maps and aerial photographs. Cannot be taken for credit by students who have received credit for GEOL 222 or GEOG 371 or GEOG 315, and not open to students who successfully completed PHSC 323. Prerequisites: 6 hours of geography and/or geology courses, including either GEOG 101 or GEOL 121.

GEOL 331 [531] MINERALOGY (4) The study of minerals with emphasis on crystallography, crystal chemistry, and chemical-structural classification. Laboratory identification of minerals both in hand specimen and thin section by application of principles of optical mineralogy. Three lecture hours and two hours laboratory. Not open to students who successfully completed PHSC 331. Prerequisites: GEOL 121; CHEM 110.

GEOL 333 [533] PETROLOGY OF IGNEOUS AND METAMORPHIC ROCKS (4) Study of the properties and genesis of two major rock groups. Megascopic and microscopic techniques in rock classification. Environments of formation. Three lecture hours and two hours laboratory. Not open to students who successfully completed PHSC 333. Prerequisite: GEOL 331.

GEOL 357 [557] PHYSICAL OCEANOGRAPHY (3) Physical, chemical, and geologic characteristics of ocean basins, boundaries and sea water, including origin and behavior of waves and currents. Not open to students who successfully completed PHSC 357. Prerequisites: PHYS 211 or 241 and CHEM 110, or consent of instructor.

GEOL 415 [515] HYDROGEOLOGY (4) Geologic aspects of groundwater: origin, occurrence, and movement. Not open to students who successfully completed PHSC 415. Prerequisites: CHEM 111; PHYS 212 or PHYS 242. Recommended: GEOL 321 and GEOL 443.

GEOL 441 [541] OPTICAL MINERALOGY AND PETROGRAPHY (3) The theory and application of polarized light and elements of crystallography in the analysis of rock forming minerals by use of a petrographic microscope. Not open to students who successfully completed PHSC 441. Prerequisite: GEOL 333.

GEOL 443 [543] SEDIMENTOLOGY AND STRATIGRAPHY (4) Production, transport and deposition of sediments and sedimentary bodies for the development of facies models useful in interpretation of the stratigraphic record. Not open to those who successfully completed PHSC 443. Prerequisites: GEOL 121, CHEM 110.

GEOL 451 [551] PETROLOGY OF SEDIMENTARY ROCKS (3) Macro- and microscopic analyses of sedimentary rocks. Classifications and diagenetic processes. Offered spring semester, alternate years. Prerequisite: GEOL 433.

GEOL 470-479 SPECIAL TOPICS IN GEOLOGY (1-4) The study of special topics in the Geosciences. Special topics will be determined by their need for study and relevance to existing courses. May be repeated with a different topic for a maximum of 6 credits.

GEOL 489 INTRODUCTION TO RESEARCH (1) Development of a research question, designing research projects, writing a proposal, scientific report writing, and oral presentation. As a final project, students develop a research proposal. Graded S/U. Prerequisites: GEOL 121, GEOL 123, and 8 additional GEOL credits; permission of instructor.

GEOL 490 INDEPENDENT STUDY IN GEOLOGY (1-4) Individual and supervised research in selected areas of Geosciences. Topics may be laboratory or field based. May be repeated for a maximum of six credits. Prerequisites: junior status, GEOL 121-123, and at least one additional GEOL course.

GEOL 491 DIRECTED READINGS (1-4) Independent reading in an area selected by the student in consultation with the instructor. May be repeated for a maximum of 6 credits. Prerequisites: junior status, GEOL 121, GEOL 123 and one additional GEOL course.

GEOL 492 INTRODUCTION TO FIELD METHODS (2) Surveying techniques, description of geological materials, geological mapping, and environmental investigations. Field trips required. Prerequisites: GEOL 121, GEOL 123, and 8 additional GEOL credits; permission of instructor.

GEOL 494 TRAVEL STUDY (1-3) Investigation of field problems and phenomena. May be repeated for a maximum of 3 credits. Prerequisite: special permit required.

GEOL 499 [599] REGIONAL GEOLOGY (2) Design and successful completion of a geological research project based on a problem of regional significance. Project results will be presented in a public forum. Field trips required. Prerequisites: GEOL 121, GEOL 123, GEOL 490, and two additional upper-level GEOL courses.

GERMAN (GERM)

Lower Division

GERM 101-102 GERMAN ELEMENTS I, II (3,3) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation. GenEd II.C.1.

GERM 201-202 GERMAN INTERMEDIATE I, II (3,3) Review of grammar; conversation and prose composition; reading of texts of cultural value. Conducted in German. Prerequisite: GERM 101-102 or equivalent. GenEd II.C.3.

Upper Division

GERM 301-302 COMPOSITION AND CONVERSATION I, II (3,3) Composition and conversation beyond the intermediate level. Conducted in German. Prerequisites: GERM 201-202 or equivalent. GenEd II.C.3.

GERM 303 GERMAN STYLISTICS (3) Development of writing skills stressing language structure and important aspects of style. Prerequisites: GERM 301-302 or the equivalent.

- GERM 311 CULTURE AND CIVILIZATION (3)** A brief survey of the history, geography and institutions of Germany. Conducted in German. Prerequisites: GERM 201-202 or equivalent.
- GERM 321 SURVEY OF GERMAN LITERATURE (3)** German literature from the 18th century to the present. Conducted in German. Prerequisites: GERM 201-202 or equivalent.
- GERM 331 GERMAN FOR BUSINESS (3)** Vocabulary and phraseology of German business correspondence for active and passive use in a business environment. Prerequisites: GERM 201-202 or equivalent.
- GERM 341 READINGS IN CONTEMPORARY GERMAN (3)** Reading and comprehension of non-literary texts. Prerequisites: GERM 201-202 or consent of instructor.
- GERM 370-379 SPECIAL TOPICS IN GERMAN (3-6)** Specialized topics in language and culture. Content varies. May be repeated once for credit provided a different topic is covered. Prerequisite: GERM 202 or equivalent.
- GERM 391 ADVANCED GERMAN GRAMMAR (3)** German syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Conducted in German. Prerequisites: GERM 301-302.
- GERM 401 GERMAN PHONETICS (3)** Pronunciation and drills in contemporary German, conducted in German. Not open to native speakers of German. Prerequisites: GERM 301-302 or equivalent.
- GERM 427 [527] GERMAN CLASSICISM (3)** Goethe, Schiller, Lessing and others. Conducted in German. Prerequisite: GERM 321 or equivalent.
- GERM 431 [531] ROMANTICISM (3)** German literature during the Romantic era (1790-1830); Hoelderlin, Novalis, Brentano, Tieck, Grillparzer. Conducted in German. Prerequisite: GERM 321 or equivalent.
- GERM 441 [541] MODERN GERMAN LITERATURE (3)** The modern masters: Kafka, Mann, Hesse, Rilke, Brecht. Conducted in German. Prerequisite: GERM 321 or equivalent.
- GERM 442 [542] GERMAN LITERATURE SINCE 1945 (3)** Themes and movements since World War II. Poetry: Eich, Enzensberger, Cean, Bachmann; prose fiction: Boell, Grass; drama: Borchert, Duerrenmatt, Frisch. Conducted in German. Prerequisite: GERM 321 or equivalent.
- GERM 461 [561] GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES (3)** The development of modern German drama in the successive literary movements, beginning with Kleist. Conducted in German. Prerequisite: GERM 321 or equivalent.
- GERM 465 [565] GOETHE'S FAUST (3)** A study of the background, themes and structures of this masterpiece. Conducted in German. Prerequisite: GERM 321 or equivalent.
- GERM 470-479 [570-579] SPECIAL TOPICS IN GERMAN (3)** Discussion of a central topic with changing emphasis from year to year. Conducted in German. May be repeated for credit provided a different topic is covered. Prerequisite: GERM 321 or equivalent.
- GERM 481 [581] THE GERMAN NOVELLE (3)** The theory and development of the Novelle in German literature from Goethe to the present. Conducted in German. Prerequisite: GERM 321 or equivalent.
- GERM 491-492 [591-592] DIRECTED READINGS IN GERMAN (1-3)** Reserved for superior students under the guidance of a departmental adviser. Content related to students' previous programs. Prerequisites: at least 3 hours of study at the 400 level, consent of department chair.
- GERM 494 TRAVEL STUDY ABROAD (3-16)** Study at Oldenburg University in Germany. Must be approved by department chair. Prerequisite: German 202 or equivalent.
- GERM 495 INTERNSHIP FOR THE PROFICIENCY IN GERMAN (3)** Supervised experience in a work setting providing students the opportunity to apply their classroom learning and skills outside the academic world. Will be one semester (fall or spring) for which students receive 3 credits for eight hours of work per week. Junior or senior undergraduate students in good academic standing who meet the requirements established for the Proficiency in German program should apply for the internship during the month of November for the spring semester and during the month of April for the fall semester. Prerequisites: open only to students who are enrolled in the Proficiency in German program and who have complied with the program regulations. Written consent of program coordinator.
- GERM 497 INTERNSHIP IN GERMAN (3)** Training and experience using German in working with government, business, and industry in Maryland or Washington, D.C. under professional supervision.

Prerequisites: junior or senior standing German majors (professional track) only, and completion of at least 27 credits above 300-level courses. Written consent of coordinator of program.

GERONTOLOGY (GERO)

Lower Division

- GERO 101 INTRODUCTION TO GERONTOLOGY (3)** Study of human aging from a variety of perspectives including sociological, psychological and biological. Provides a background in social and political public policy issues related to the aging of America. Prerequisite: two years of high school algebra or DVMT 110. GenEd II.B.3.

Upper Division

- GERO 310 [510] SOCIAL ISSUES IN HUMAN LIFE SPAN (3)** Technologies that provide a longer and better quality of life; social, financial, ethical and legal implications. Prerequisites: BIOL 110, GERO 101.
- GERO 370-374 SPECIAL TOPICS (3)** Topics of contemporary interest and emerging interest in gerontology. Prerequisites: GERO 101 and permission of gerontology adviser.
- GERO 397 GERONTOLOGY INTERNSHIP (3)** Supervised experience in gerontology. May be repeated for a maximum of 9 credits with gerontology adviser's permission. Prerequisite: 15 hours in gerontology, including GERO 101.
- GERO 450 [550] DIRECTED READINGS IN GERONTOLOGY (3)** Systematic inquiry into a topic of the student's choice in consultation with faculty. Prerequisite: graduate standing or 25 semester hours of GERO courses.
- GERO 485 GERONTOLOGY SENIOR SEMINAR (3)** Programmatic, ethical, and public policy issues of aging. Prerequisite: completion of gerontology core course requirements.

GREEK (GRK)

Lower Division

- GRK 101-102 ELEMENTS OF MODERN GREEK I, II (3, 3)** A thorough foundation in grammar; drills in pronunciation; elementary conversation and composition; introduction to Greek culture. GenEd II.C.1.
- GRK 103-104 ANCIENT GREEK ELEMENTS I-II (3-3)** Ancient Greek grammar structure and vocabulary related to modern languages. GenEd II.C.1.

HEALTH CARE MANAGEMENT (HCMN)

Upper Division

- HCMN 413 SERVICES AND HOUSING FOR THE LONG-TERM CARE CONSUMER (3)** Financing and regulatory structure for services and housing options for chronically ill, dependent populations in the U.S.; market trends, reimbursement structures and regulatory policies. Prerequisite: HLTH 207 or consent of instructor. Not open to students who have successfully completed HLTH 413.
- HCMN 415 FINANCING AND ORGANIZATION OF HEALTH CARE SERVICES IN THE U.S. (3)** Financing and organization of health care services, emphasizing managed care philosophies in context of organizational and economic theories. Prerequisite: HLTH 207.
- HCMN 441 [521] LEGAL AND ETHICAL ISSUES IN HEALTH ADMINISTRATION (3)** Examination of legal and ethical issues in the administration of health programs. Emphasis is placed on the impact of cost containment efforts, quality and malpractice concerns, profit-seeking in health, biomedical advances, and the new delivery mechanisms. Prerequisite: consent of instructor.
- HCMN 495 HEALTH CARE MANAGEMENT INTERNSHIP (12)** Supervised, educational experience in health management. Prerequisites: completion of all required courses with 2.00 or higher grade equivalent and permission of department chair.

HEALTH SCIENCE (HLTH)

Lower Division

- HLTH 101 WELLNESS FOR A DIVERSE SOCIETY (3)** Health promotion, disease prevention and healthy lifestyles; analysis of personal attitudes and behaviors. GenEd II.B.3.
- HLTH 103 EMC, FIRST AID AND SAFETY (3)** Emergency intervention designed for people who may have to give first aid, advanced life support, or cardiopulmonary resuscitation in the course of their

daily lives. Standard certification will be by the American Heart Association. Safety awareness will be explained.

HLTH 204 NUTRITION AND WEIGHT CONTROL FOR THE CONSUMER (3) Using consumer models, this course contains elements of nutrition, weight control, and fitness. Prerequisite: HLTH 101.

HLTH 207 HEALTH CARE IN THE U.S. (3) Analysis of health care demands, cost, supply and recipients. Analysis of different health care settings and factors such as professionalism, the professional education system, authority structures, ethical responsibilities and referrals. Emerging policy debate and role of managed care are also explored. GenEd II.B.3.

HLTH 208 MENTAL HEALTH, STRESS MANAGEMENT AND CRISIS INTERVENTION (3) Emphasis on helping relationships, constructive communication, stress and stressful life events, various approaches to handling crisis situations, and an overview of the mental health services system. Prerequisite: HLTH 101.

HLTH 221 SEXUALITY IN A PLURALISTIC SOCIETY (3) Covers the multifaceted components of human sexuality including historical influences, religious influences, moral development and values, sexual practices and alternate behaviors, healthy behaviors, and sex-related diseases. GenEd II.B.3.

HLTH 222 FOUNDATIONS OF HEALTH EDUCATION AND HEALTH BEHAVIOR (3) Social, cultural and historical foundations examined in light of planning and implementing health education programs. Prerequisite: HLTH 101.

HLTH 225 WEIGHT CONTROL: THEORY AND PRACTICE (3) The theoretical and practical aspects of losing, gaining or maintaining weight. Recent medical and behavioral literature are reviewed. Opportunities exist in class to make application of the theories. Prerequisite: HLTH 101 or consent of instructor.

Upper Division

HLTH 305 COMMUNITY HEALTH ADMINISTRATION (3) A survey of current approaches to the theories, practices and organization of community health services administration. Offered every other year. Prerequisite: HLTH 207.

HLTH 311 CHRONIC AND COMMUNICABLE DISEASE (3) A factual, non-clinical approach to the major chronic and communicable diseases that are health problems in the United States population today. Patient education methods and the role of the health educator in relation to these diseases are stressed. Prerequisites: HLTH 101, BIOL 110 (BIOL 315 strongly recommended).

HLTH 315 CURRICULUM AND PLANNING (3) In-depth analysis of the planning process for both community and school settings. Prerequisite: HLTH 222. GenEd I.D.

HLTH 331 NUTRITION FOR HEALTH PROFESSIONALS (3) An in-depth study of the chemical nature and utilization of nutrients; the composition, digestion, absorption of foods, and the normal nutritional requirements of the human body. Focus on nutrition and health, and nutrition and disease. Prerequisites: CHEM 101, BIOL 110 or consent of instructor.

HLTH 333 FOOD SAFETY SCIENCE (3) Principles of the spread of food-borne illness as applied to maintaining safe supplies in food and food service establishments. Field trips required. Prerequisite: BIOL 201 or BIOL 110.

HLTH 387 STUDENT TEACHING IN SECONDARY EDUCATION—SCHOOL HEALTH (6)

HLTH 388 STUDENT TEACHING IN SECONDARY EDUCATION—SCHOOL HEALTH (12)

HLTH 401 [501] TEACHING ABOUT DRUGS AND SEX (3) Content, procedures and methods for presenting sensitive subjects, including human sexuality and drugs. Not open to law enforcement majors. Prerequisites: HLTH 101 or HLTH 221, HLTH 325, PSYC 101, BIOL 110.

HLTH 405 [505] DRUGS IN OUR CULTURE (3) An in-depth review of harmless, harmful, useless and useful substances that may affect behavior or mood; the interaction of psychological, sociological and physiological components are included. Prerequisite: HLTH 101.

HLTH 411 [511] HEALTH AND LATER MATURITY—THE AGING PROCESS (3) An approach to the conservation of human resources with emphasis on understanding attitudes and practices related to health in later maturity. Designed for students with a personal or professional interest in the field. Prerequisite: 6 hours of health and/or behavioral science or consent of instructor.

HLTH 421 FIELD WORK IN COMMUNITY HEALTH (1-6) Practical experience by participating in community health situations. May be repeated for a maximum of 6 credits. Designed for dual concentration. Graded S/U. Prerequisites: HLTH 315 and 425; upper-division health elective.

HLTH 422 FIELD WORK IN COMMUNITY HEALTH (1-12) Practical experience by participating in community health situations. May be repeated for a maximum of 12 credits. Designed for community health concentration. Graded S/U. Prerequisites: HLTH 315 and 425; upper-division health elective.

HLTH 425 INSTRUCTIONAL METHODS IN HEALTH EDUCATION (3) Focuses on methods used in community and school settings, emphasizing instructional techniques used for adolescents and adults. Prerequisite: HLTH 315.

HLTH 426 METHODS IN ELEMENTARY SCHOOL HEALTH EDUCATION (2) Focuses on instructional methods used in the delivery of health education in elementary schools. Prerequisite: SCED 341.

HLTH 430 ORGANIZATION, IMPLEMENTATION AND MANAGEMENT OF HEALTH EDUCATION PROGRAMS (3) Focuses on techniques for managing health programs in school and community settings. Prerequisite: HLTH 315.

HLTH 432 MEASUREMENT AND EVALUATION IN HEALTH EDUCATION (3) Focuses on the elements of courses and program evaluation design in health education, including data collection; instrument and test development; techniques for analyzing health courses/program data; and writing evaluation reports. Prerequisites: passed functional reading and writing test; HLTH 315.

HLTH 435 EPIDEMIOLOGICAL BASIS OF DISEASE AND ENVIRONMENTAL HEALTH (3) An examination of epidemiological investigation principles, chronic and communicable diseases; pollution, housing sanitation, and their interrelationships. Prerequisites: BIOL 110 or BIOL 201 or BIOL 202.

HLTH 451 [551] ECOLOGICAL ASPECTS OF HEALTH (3) An examination of the interrelationship between humans and their environment. Emphasis is placed upon health aspects of pollution, housing, sanitation, radiation, behavioral disorders and epidemiology. Prerequisite: BIOL 110 or BIOL 201 or BIOL 202.

HLTH 470-479 [570-579] HEALTH WORKSHOPS (3) For teachers, administrators and individuals concerned about health related fields. Contemporary health aspects are considered with emphasis on implementation of positive behavior aimed at improving the health of the individual and the community. Enrollment is limited to 25. May be repeated for credit provided a different topic is covered. Prerequisite: HLTH 101 or consent of instructor.

HLTH 491 [591] HEALTH DIRECTED READINGS (1-3) Independent reading in health or health-related disciplines. Prerequisites: a minimum of 12 credits in health and consent of department chair.

HLTH 494 [594] TRAVEL AND STUDY (3) An examination of various types of health care delivery in the countries and cities visited in comparison with that of the United States. For complete information, contact chair of the department. Prerequisite: HLTH 101 or consent of instructor.

HLTH 495 [595] INDEPENDENT STUDY (3) Directed study on specific problems in health and related fields. Prerequisites: consent of department chair and 12 hours in health.

HLTH 497 PROFESSIONAL DEVELOPMENT IN HEALTH EDUCATION (1) Provides students with the opportunity to select and work with faculty members in their areas of teaching and research expertise. Students select a faculty member whom they will assist in conducting projects. Students will complete a written summary of their professional development experience. Prerequisite: consent of instructor.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

HEBREW (HEBR)

Lower Division

HEBR 101-102 ELEMENTS OF HEBREW I, II (3, 3) An introduction to Hebrew. Speaking, reading, and writing, the development of conversational ability, free composition, and translation from English to Hebrew. GenEd II.D.

HEBR 201-202 HEBREW INTERMEDIATE I, II (3, 3) A continued review of grammatical structure with emphasis on conversational

and reading fluency. Vocabulary building, composition and reading and discussion of selected outside readings. Prerequisites: HEBR 101-102. GenEd II.D.

HEBR 205 CONTEMPORARY HEBREW LITERATURE (3) Survey of selected short stories in English translation from the time of the czars in Russia to Israel today.

Upper Division

HEBR 301-302 HEBREW COMPOSITION AND CONVERSATION I, II (3, 3) Intensive exercises in Hebrew composition and conversation beyond the intermediate level. Conducted in Hebrew. Prerequisites: HEBR 201-202 or equivalent or consent of instructor. GenEd II.D.

HEBR 391 READINGS IN MODERN HEBREW LITERATURE (3) The reading and literature analysis of selected short stories by the major writers of Hebrew literature in Israel today. Conducted in Hebrew. Prerequisites: HEBR 201-202 or equivalent or consent of instructor.

HINDI (GENL)

GENL 117-118 HINDI ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation; elementary vocabulary; reading; compositions, and translations.

HISTORY (HIST)

Lower Division

HIST 101 INTRODUCTION TO ANCIENT CIVILIZATION (3) Political, social, economic and intellectual forces which shaped the pattern of Near Eastern and European life from the Stone Age through the decline of the Roman Empire. GenEd II.C.1.

HIST 102 HISTORY OF EUROPEAN CIVILIZATION THROUGH THE 17TH CENTURY (3) Political, social, economic and intellectual forces which shaped the pattern of European life from post-Roman times through the 17th century. Not open to students who have successfully completed HIST 241. GenEd II.C.1

HIST 103 HISTORY OF EUROPEAN CIVILIZATION FROM THE 17TH CENTURY (3) Political, social, economic and intellectual forces which shaped the pattern of European life from the 17th century to the present. Not open to students who successfully completed HIST 242. GenEd II.C.1.

HIST 105 BYZANTINE EMPIRE AND BALKANS TO 1821 (3) Historical survey from the fourth century A.D. foundation of Constantinople to the outbreak of the Greek Revolution in 1821. GenEd II.C.1.

HIST 107 INTRODUCTION TO HISTORY OF ISLAMIC CIVILIZATION (3) Survey of the history and culture of the Islamic peoples from Muhammed to the present. Emphasis on the Arabic nations. GenEd II.D.

HIST 108 HONORS HISTORY OF EUROPEAN CIVILIZATION FROM THE 17TH CENTURY (3) Political, socio-economic and intellectual trends in Europe since the 17th century; emphasis on class discussion and student research appropriate to Honors College. Not open to students who successfully completed HIST 244. GenEd II.C.1.

HIST 109 INTRODUCTION TO THE CIVILIZATION OF INDIA (3) Development of the culture of South Asia from earliest times and the emergence of the present nations of Bangladesh, Pakistan, India, and Sri Lanka (Ceylon). GenEd II.D.

HIST 110 EAST ASIAN CIVILIZATION TO THE 17TH CENTURY (3) Comprehensive survey of the origins and development of Chinese, Korean and Japanese civilizations, focusing on China as the fountainhead of East Asian civilizations. GenEd II.D.

HIST 111 MODERN EAST ASIA SINCE THE 17TH CENTURY (3) Survey of China, Korea and Japan in modern times, tracing their responses to the West and their modern transformations in the 19th and 20th centuries. GenEd II.D.

HIST 118 INTRODUCTION TO JAPANESE CIVILIZATION (3) Survey of Japanese history and cultural development from pre-history to the 20th century. GenEd II.D.

HIST 119 INTRODUCTION TO CHINESE CIVILIZATION (3) Survey of Chinese history and cultural development from pre-history to the 20th century. GenEd II.D.

HIST 121 LATIN AMERICA: COLONIAL PERIOD (3) Political, economic and social developments in Portuguese and Spanish America from the pre-Columbian period to the movements for independence. GenEd II.D.

HIST 122 LATIN AMERICA: NATIONAL PERIOD (3) Struggle for political, economic and social stability, international relations and cultural patterns in the development of independent Latin America in the 19th and 20th centuries. GenEd II.D.

HIST 135 AFRICAN HISTORY AND CULTURE (3) Sub-Saharan Africa; including the evolution of traditional societies into Western-influenced states, supported by archaeological, anthropological, ecological, geographical, literary, artistic and musical evidence. GenEd II.D.

HIST 145 HISTORY OF THE UNITED STATES TO THE MID-19TH CENTURY (3) Political, economic, social and cultural forces which shaped the pattern of life in the United States from the founding of the colonies to 1865. GenEd II.B.1.

HIST 146 HISTORY OF THE UNITED STATES SINCE THE MID-19TH CENTURY (3) Continuation of HIST 145 from 1865 to the present. GenEd II.B.1.

HIST 148 HONORS HISTORY OF THE UNITED STATES SINCE THE MID-19TH CENTURY (3) Political, economic, social and cultural forces in American life since 1865; emphasis on student initiative and active participation in the learning process. GenEd II.B.1.

HIST 150 EUROPE AND THE WIDER WORLD (3) Europe's changing relationships with the non-European world from the early Middle Ages through World War II. GenEd II.D.

HIST 151 THE WORLD SINCE 1945 (3) Major historical developments in the post WWII era, including postwar diplomacy, the Cold War in Europe and Asia, nationalism, the Mideast problem, the Vietnam War, East-West detente, the nuclear arms race, and political and economic problems in the third world. GenEd II.D.

HIST 201 HISTORY OF IRELAND (3) Survey of Irish history emphasizing the demographic patterns, and the cultural, religious, economic and political themes that have shaped the lives of the people of Ireland from the Iron Age to the present.

HIST 231 HISTORY OF RUSSIAN CIVILIZATION (3) Political, social, economic and intellectual forces of Russian life from the ninth through the 19th century. GenEd II.C.1

HIST 275 THE HISTORY OF ANCIENT ISRAEL (3) Survey of the history and culture of the Israelites from Moses to the second Jewish revolt under Bar-Kokhba in 135 C.E.

HIST 277 A SURVEY OF JEWISH HISTORY (3) Political, cultural and socio-economic experiences of world Jewry from the Diaspora to the present. Emphasis on the 19th and 20th centuries.

Upper Division

HIST 300 INTRODUCTION TO HISTORICAL STUDY (3) Survey of historical writings, the theory of history, introduction to research. Not open to those who successfully completed HIST 290. Prerequisite: ENGL 102 or ENGL 190. GenEd I.D.

HIST 301 [501] ANCIENT NEAR EASTERN CIVILIZATIONS (3) Civilizations of Mesopotamia and Egypt and the peripheral developments in Syria-Palestine and Asia Minor. Prerequisite: HIST 101 or consent of instructor.

HIST 303 [503] ALEXANDER THE GREAT AND HIS SUCCESSORS (3) Conquests of Alexander the Great, culture and religion of Greece and Near East in the Hellenistic period. Prerequisite: HIST 101 or consent of instructor.

HIST 304 [504] ANCIENT GREEK CIVILIZATION (3) The civilization of classical Greece, including the Minoan and Mycenaean bronze age antecedents, to 323 B.C. Prerequisite: HIST 101 or consent of instructor.

HIST 305 [505] ROMAN CIVILIZATION (3) The civilization of ancient Rome from the foundation of the city to the collapse of the Roman Empire in the West. Prerequisite: HIST 101 or consent of instructor.

HIST 306 [506] WOMEN IN 20th CENTURY U.S. HISTORY (3) Multicultural perspective on politics, work, family and sexuality in women's lives. Prerequisite: HIST 146 or HIST 148 or WMST 231 or consent of instructor.

HIST 307 [514] THE ANDEAN REPUBLICS (3) Economic, social and political developments in Peru, Bolivia and Ecuador from independence to the present. Prerequisite: 6 credits in history or 3 credits in Latin American history.

HIST 311 [509] TRADITIONAL INDIA: ITS HISTORICAL DEVELOPMENT (3) Development of the history and culture of India from prehistoric times until the beginnings of European dominance in the 18th century. Prerequisite: 6 credits in history or consent of instructor.

- HIST 312 [510] HISTORY OF MODERN INDIA (3)** History of the Indian subcontinent since 1750, stressing the rise of British power, the colonial experiences, the development of nationalist movements, and the problems of independence in present-day India, Pakistan, and Bangladesh. Prerequisite: 6 credits in history or consent of instructor.
- HIST 313 [511] HISTORY OF MODERN SOUTHEAST ASIA (3)** Development of Burma, Thailand, Malaysia, Indonesia, Cambodia, Vietnam and the Philippines since 1500, with emphasis on the colonial experience and development of modern nationhood. Prerequisite: 6 credits in history or consent of instructor.
- HIST 315 [512] IMPERIAL CHINA: THE LAST DYNASTY (3)** Ching (Qing) dynasty, 1644-1912; focus on the 19th century collision of imperial China and the West. Prerequisite: 6 credits in history.
- HIST 316 [513] REVOLUTIONARY CHINA (3)** The ongoing Chinese revolution from the overthrow of the imperial government through the Nationalist and Communist periods. Prerequisite: 6 credits of history or consent of instructor.
- HIST 318 [518] MODERN KOREA (3)** Korea in the 19th and 20th centuries, including Japanese colonial control, postwar division, the Korean War, and the political and economic development of North and South Korea. Prerequisite: 6 credits in history.
- HIST 319 [519] JAPAN, 1830 TO 1930 (3)** Japan's transition from feudalism and national seclusion to emergence of a modern nation-state with an overseas empire and a parliamentary form of government. Prerequisite: 6 credit hours of history or consent of instructor.
- HIST 320 [520] JAPAN, 1930 TO PRESENT (3)** Japan's transition from militarism and foreign aggression in the 1930s to postwar pacifism, democracy, and dynamic economic growth. Prerequisite: 6 credit hours of history or consent of instructor.
- HIST 321 [521] HISTORY OF MEXICO: PRE-COLUMBIAN AND COLONIAL (3)** Political, economic, social and cultural developments from early pre-Columbia civilizations to the movement for independence. Prerequisite: 6 lower-division credits in history.
- HIST 324 [522] HISTORY OF MEXICO: NATIONAL PERIOD (3)** Political, economic, social, and cultural developments from independence to the present. Prerequisite: 6 lower-division credits in history.
- HIST 325 [507] DEMOCRATIZATION IN LATIN AMERICA (3)** Analysis of the failures and successes in building democratic political institutions in Latin America; emphasis on 1930s-present. Not open to those who successfully completed HIST 484 in fall, 1993. Prerequisite: HIST 122 or consent of instructor.
- HIST 328 HISTORY OF EAST AFRICA FROM 1820 TO PRESENT (3)** Multiculturalism on the Swahili coast with emphasis on social stratification, religion, women, and family. Prerequisite: HIST 135 or consent of instructor.
- HIST 329 [502] HISTORY OF SOUTH AFRICA (3)** Social and cultural change in South Africa from early times to present. Prerequisite: HIST 135 or consent of instructor.
- HIST 331 [531] AMERICAN MILITARY HISTORY 1898-1945 (3)** Campaigns, tactics, and institutional development of the armed forces in peace and war, seen in the context of politics and diplomacy; emphasis on World War II. Prerequisite: HIST 146 or HIST 148.
- HIST 332 [532] AMERICAN MILITARY HISTORY SINCE 1945 (3)** Campaigns, tactics, and institutional development of the armed forces in peace and war, seen in the context of politics and diplomacy; emphasis on Korea and Vietnam. Prerequisite: HIST 146 or HIST 148.
- HIST 339 THE MAKING OF THE MODERN MIDDLE EAST (3)** Ethnic, religious, political and economic factors that have shaped the Middle East since 1798. Prerequisites: HIST 107 or 6 credits in history or consent of instructor.
- HIST 345 [533] THE AMERICAN COLONIES: 1492-1763 (3)** Founding of and the political, economic, and social development of the American colonies. Prerequisite: HIST 145 or HIST 241 or consent of instructor.
- HIST 346 [534] THE AMERICAN REVOLUTIONARY PERIOD: 1763-1789 (3)** From the end of the Seven Years' War to the ratification of the Constitution. Prerequisite: HIST 145 or HIST 241 or consent of instructor.
- HIST 347 [535] THE EARLY NATIONAL PERIOD (3)** The United States from the Constitutional Convention to the Election of 1820. The Federalist Decade and Jeffersonian Era. Prerequisite: HIST 145.
- HIST 348 [536] THE JACKSONIAN ERA (3)** The United States from 1815 to 1845; political, social, and economic currents of the period. Prerequisite: HIST 145.
- HIST 349 [537] THE CIVIL WAR (3)** Sectionalism, the coming of the war, and the war years. Emphasis on political, economic, and social issues. Prerequisite: HIST 145.
- HIST 350 [538] THE ERA OF RECONSTRUCTION (3)** Political, economic, and social study of the Reconstruction era, the war years to 1877, and its aftermath. Prerequisite: HIST 145.
- HIST 351 [539] THE U.S. 1865-1901: AGE OF ENTERPRISE (3)** Industrialization of the United States, the rise of big business and an examination of resulting problems in economic, social and political life. Prerequisite: HIST 145 or HIST 146 or HIST 148.
- HIST 352 [540] THE U.S. 1892-1920: AGE OF REFORM (3)** America's efforts to deal with the political, social, and economic problems of industrial life; emphasis on the Populist movement; imperialism and the Spanish-American War, the administrations of Theodore Roosevelt, William Howard Taft, and Woodrow Wilson. Prerequisite: HIST 145 or HIST 146 or HIST 148.
- HIST 359 [541] THE F.D.R. ERA (3)** History of the United States from the 1920s through World War II, with emphasis on the presidential years of Franklin D. Roosevelt. Prerequisite: HIST 146 or HIST 148.
- HIST 360 [542] RECENT AMERICAN HISTORY: 1945-1975 (3)** History of the United States from World War II through the mid-1970's, including political, social, economic, and diplomatic developments. Prerequisite: HIST 146 or HIST 148.
- HIST 361 [526] GAYS AND LESBIANS IN U.S. HISTORY (3)** Multicultural perspectives on gay and lesbian cultures and communities and their struggles against institutionalized homophobia in education, the military, the media, medicine, religion and government. Prerequisite: 3 credits in history or women's studies or consent of the instructor.
- HIST 363 [544] SOCIAL HISTORY OF THE UNITED STATES TO 1865 (3)** American life to the Civil War, focusing on social structure, mobility, race, ethnicity, family, roles of women, religious and educational institutions, community, and popular culture. Prerequisite: HIST 145.
- HIST 364 [545] SOCIAL HISTORY OF THE UNITED STATES SINCE 1865 (3)** American life from the Civil War, focusing on social structure, mobility, race, ethnicity, family, roles of women, religious and educational institutions, community, and popular culture. Prerequisite: HIST 146 or HIST 148.
- HIST 365 COMPARATIVE HISTORY OF THE MODERN FAMILY (3)** Impact of economic, social and reproductive changes on family life and structure. Prerequisite: one course in HIST, SOCI, or WMST.
- HIST 366 [546] A HISTORY OF AMERICAN BUSINESS (3)** Study of industry, finance, commerce and agriculture from the Civil War to the present. Prerequisites: 3 credits in history and either consent of instructor or junior standing.
- HIST 367 [547] THE DEVELOPMENT OF THE U.S. CONSTITUTION: 1787-1941 (3)** Intellectual and political influences which produced the Constitution of 1787, the struggle between national supremacy and state sovereignty up to the Civil War, and the development of the new judicial review after 1870. Prerequisites: HIST 145 and either HIST 146 or HIST 148.
- HIST 368 [548] THE BILL OF RIGHTS AND THE CONSTITUTION: 1941 TO THE PRESENT** Interpretation of the Bill of Rights before and after the Warren Court. Prerequisite: HIST 146 or HIST 148.
- HIST 370 [550] DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1900 (3)** The role of the United States in modern warfare, world wide economic and financial affairs, overseas expansion, the diplomatic impact of conflict in ideologies, and current international crisis. Prerequisite: HIST 145 or HIST 146 or HIST 148.
- HIST 373 [551] EARLY AMERICAN FRONTIER (3)** The westward movement and the effect of the frontier process on social, economic and political institutions of the United States and the attitudes of the American people to 1850. Prerequisite: HIST 145.
- HIST 374 [552] THE FAR WESTERN FRONTIER (3)** Expansion into the Trans-Mississippi West and the impact of the frontier process on the attitudes of the American people and on the social, economic and political institutions of the United States in the 19th and 20th centuries. Prerequisite: HIST 146 or HIST 148.
- HIST 375 [553] THE CITY IN AMERICAN HISTORY (3)** Development of the American city and its impact on society, culture, ethnicity, race relations, the roles of women, economics and politics. Prerequisite: 3 credits in United States history.

- HIST 378 [565] IMMIGRANTS AND IMMIGRATION IN THE UNITED STATES (3)** Comparative social, cultural, and economic history of selected ethnic groups and their relationship to the dominant culture. Emphasis on the late 19th and 20th centuries. Prerequisite: 3 credits of United States history or consent of instructor.
- HIST 379 [555] HISTORY OF NATIVE AMERICANS: THE EAST (3)** Topical and regional ethnohistory of the native peoples of Eastern America and their relations with non-native peoples and governments, precontact to the present. Prerequisite: 3 credits in American history.
- HIST 380 [556] HISTORY OF NATIVE AMERICANS: THE WEST (3)** Topical and regional ethnohistory of the native peoples of Western America and their relations with non-native peoples and governments, precontact to the present. Not open to those who successfully completed Indian-White Relations in American History (HIST 379). Prerequisite: 3 credits of American history.
- HIST 381 [563] AFRICAN-AMERICAN HISTORY TO THE MID-19TH CENTURY (3)** The political, economic and social history of African-Americans from their African origins through the antebellum period. Prerequisite: HIST 145.
- HIST 382 [564] AFRICAN-AMERICAN HISTORY FROM THE MID-19TH CENTURY (3)** The political, economic and social history of African-Americans from the Civil War through the Civil Rights Era. Prerequisite: HIST 146 or HIST 148.
- HIST 384 [508] LIFE HISTORIES OF AFRICAN WOMEN (3)** Methodological historical analysis of lives of selected African women from diverse African cultures compared with the lives of women throughout the world. Prerequisite: 6 hours of history and/or women's studies.
- HIST 385 [558] WORKERS AND WORK IN THE UNITED STATES (3)** The changing nature of agricultural, domestic and industrial work; business-labor relations; labor unions and leaders; role of labor in mainstream and radical political movements. Emphasis on the late 19th and 20th centuries. Prerequisite: HIST 146 or HIST 148 or 3 credits in economics.
- HIST 389 ROOTS OF ROCK AND ROLL (3)** The roots of rock and roll from Tin Pan Alley to the youth movements of the 1960s. Social, economic and cultural origins of rock and roll as a legitimate popular music. Prerequisite: HIST 146 or consent of instructor.
- HIST 391 [559] HISTORY OF CANADA (3)** Emphasis on the period since 1867. Particular attention will be given to the problems of cultural dualism and confederation. Prerequisite: HIST 145 or HIST 146 or HIST 148 or HIST 242 or POSC 101.
- HIST 397 [560] HISTORY OF MARYLAND FROM COLONIAL TIMES TO THE PRESENT (3)** Major events and forces that have shaped the political, social, cultural and economic development of Maryland. Prerequisite: 3 credits in United States history.
- HIST 401 [567] THE EARLY MIDDLE AGES: 300-1050 (3)** The rebuilding of Europe after the collapse of the Roman Empire. Emphasis on the Church fathers, the Germanic tribes, Carolingian culture, feudalism and the Vikings. Prerequisite: HIST 241 or consent of instructor.
- HIST 402 [568] THE HIGH MIDDLE AGES: 1050-1350 (3)** Medieval culture, emphasizing the role of the Church, emergence of the national monarchies of western Europe, and the creation of towns and universities. Prerequisite: HIST 241 or consent of instructor.
- HIST 403 [569] THE RENAISSANCE ERA: 1300-1500 (3)** Political, economic, social and cultural changes in late medieval and Renaissance Europe. Prerequisite: HIST 241 or consent of instructor.
- HIST 404 [570] THE REFORMATION: 1500-1648 (3)** Religious, political, economic and social changes in Reformation and Counter Reformation Europe. Prerequisite: HIST 241 or consent of instructor.
- HIST 406 [572] EUROPE: 1815-1914 (3)** Economic, political, social and intellectual developments, emphasizing the industrial revolution, nationalism and imperialism, and the origins of World War I. Prerequisite: HIST 242 or 244.
- HIST 415 [576] DIPLOMATIC HISTORY OF EUROPE: 1815-1939 (3)** Specific diplomatic crises, emphasizing their impact on the European balance of power. Prerequisite: HIST 242 or HIST 244.
- HIST 416 [516] BRITISH HISTORY: 1760-1902 (3)** Political change and transformation of British government from George III until emergence from Splendid Isolation. Explores growth of the imperial system. Prerequisite: HIST 242 or HIST 244.
- HIST 420 [579] EUROPEAN IDEAS: FRENCH REVOLUTION TO THE PRESENT (3)** Religious, scientific, political and social theories of the European intellectual class seen in their historical context from the French Revolution to the present. Prerequisite: HIST 242 or HIST 244 or consent of instructor.
- HIST 421 [580] GREAT BRITAIN IN THE 20th CENTURY (3)** Political, social and economic developments in Great Britain from 1897 to the present. Prerequisite: HIST 242 or HIST 244.
- HIST 427 [527] EUROPEAN MILITARY HISTORY: 1871-1925 (3)** Minor wars of 1871-1913, build-up to World War I, the war and its aftermath, seen in the context of diplomatic, political and socio-economic history. Not open to students who successfully completed HIST 413. Prerequisite: HIST 242 or HIST 244 or consent of the instructor.
- HIST 429 [529] EUROPEAN MILITARY HISTORY: 1925-1945 (3)** Military institutions of the Interwar Period, build-up to World War II, the European War in the context of diplomatic, political and socio-economic history. Not open to students who successfully completed HIST 413. Prerequisite: HIST 242 or HIST 244 or consent of the instructor.
- HIST 431 [581] FRANCE: 1763-1871 (3)** Old Regime and the impact of successive revolutions on French society, emphasis on France's role in the growth of European liberalism and nationalism. Prerequisite: HIST 242 or HIST 244.
- HIST 441 [582] GERMANY: 1871-1945 (3)** Analysis of the Bismarckian Empire, Weimar Republic and the Third Reich, emphasizing the interrelationships between internal developments and Germany's role in Europe and the world. Prerequisite: HIST 242 or HIST 244.
- HIST 452 [584] RUSSIA/SOVIET UNION: 1894-1953 (3)** Political, ideological, economic and cultural factors influencing the fall of the monarchy, the Bolshevik Revolution, Leninism and Stalinism. Prerequisite: HIST 231 or HIST 242 or HIST 244 or consent of instructor.
- HIST 453 [585] HISTORY OF SOVIET RUSSIA FROM KRUSCHEV TO GORBACHEV (3)** Topical analysis of political history and theory, economic development, foreign affairs, social changes, and cultural and literary trends. Prerequisite: HIST 151 or 231 or 242 or HIST 244 or consent of instructor.
- HIST 454 [589] THE FOREIGN POLICY OF THE SOVIET UNION (3)** An examination of the twin pillars of Soviet foreign policy since 1917: international Marxism and the defense of Mother Russia. Prerequisite: HIST 151 or HIST 231 or HIST 452 or HIST 453 or POSC 432 or consent of instructor.
- HIST 475 PUBLIC HISTORY: THEORY AND PRACTICE (3)** Approach, theoretical understanding, and methodology of professional historians in representing history to the broader public. Prerequisites: HIST 300 and 6 additional history credits.
- HIST 477 [586] EUROPE IN THE THIRD WORLD: THE AGE OF HIGH IMPERIALISM (3)** Impact of modern European Colonialism on the societies of the Third World, chiefly Africa and Asia. Primary emphasis on the 19th and 20th centuries. Prerequisite: HIST 242 or HIST 244 or consent of instructor.
- HIST 478 [598] HISTORY OF TERRORISM SINCE THE MID-NINETEENTH CENTURY (3)** Ideology, organization, operation of terrorist groups, world-wide, including anarchists, Russian revolutionaries, mass political parties with terrorist wings, the Klan, and Middle Eastern groups. Prerequisite: 6 credit hours of history or consent of the instructor.
- HIST 479 [587] A HISTORY OF DIPLOMACY (3)** Evolution from its origins to the present with emphasis on the modern period. Historic changes which shifting ideologies and new technologies have wrought in the role of the diplomat. Prerequisites: HIST 241, HIST 242 or HIST 244.
- HIST 482 [590] INTERPRETIVE PROBLEMS IN HISTORY (3)** In-depth study of historical interpretations of selected topics. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisite: 12 credits in history appropriate to topic.
- HIST 483 [591] BIOGRAPHICAL STUDIES IN HISTORY (3)** Study of selected historical figures who have shaped or reflected the past. Figures to be selected by the instructor. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisite: 6 credits in history appropriate to topic.
- HIST 484 [592] HISTORICAL THEMES (3)** Study through lectures and discussions of a historical topic selected by the instructor. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisite: 6 credits in history appropriate to topic.
- HIST 486 HISTORY SEMINAR (3)** Research and writing in a specific period and area of history to be selected by the instructor. May be

repeated for a maximum of 6 credits provided a different topic is covered. Prerequisites: Consent of instructor and 15 credits in history, including HIST 300.

HIST 487 [596] COLLOQUIUM (3) Group discussion of reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with broad periods, topics, problems, or comparative developments selected by the instructor(s). May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisites: Consent of instructor and 15 credits in history or 9 credits in history and 6 credits in the related discipline.

HIST 493 INTERNSHIP (3-6) Experience designed to combine the research and content of history with work in historical libraries, museums, archival depositories, and similar agencies. No more than 6 credits to be earned with any one agency. May be repeated for a maximum of 6 credits. Graded S/U. Prerequisites: 27 credits in history and consent of department chair. (Not for Graduate Credit.)

HIST 494 [594] TRAVEL AND STUDY (3-6) Countries and topics to be selected by the departments and instructors sponsoring the program. For complete information, write the chair of the department early in the fall of the academic year preceding the semester of intended study. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisites: junior/senior status and consent of instructor.

HIST 496 [593] DIRECTED INDIVIDUAL RESEARCH (2-4) Research and reading dealing with a historical topic to be selected by the instructor and student; considerable attention to methodology. May be repeated for a maximum of 6 credits. Prerequisites: 15 credits in history and a minimum average of 3.00 in history, and consent of instructor and department chair.

HIST 497 [597] DIRECTED READING (2-4) Independent reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with specific periods, topics, problems, or comparative developments selected by the student in consultation with the instructor(s). May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisites: 15 credits in history or 9 credits in history and 6 credits in the related discipline and a minimum average of 3.00 in history and the related discipline and consent of department chair.

HIST 498 HONORS DIRECTED READINGS (2-4) Independent reading in history or related disciplines on a topic selected by the student in consultation with the instructor(s). May be repeated for a maximum of 6 credits. Prerequisite: admission to the Departmental Honors Program.

HIST 499 HONORS THESIS (4-8) Research and the writing of a thesis, to be directed by a faculty member in a chosen area of specialization. Prerequisite: admission to Departmental Honors Program. (Not for Graduate Credit.)

Graduate Division

See *TU Graduate Catalog* for course descriptions.

HONORS COLLEGE (HONR)

Lower Division

HONR 170-179 HONORS SPECIAL FRESHMAN-YEAR TOPICS (1-3) Course content varies with topic. Designed to enhance the Honors College experience. May be repeated provided a different topic is covered. Prerequisites: entry into Honors College; consent of instructor.

HONR 270-279 HONORS SPECIAL SOPHOMORE-YEAR TOPICS (1-3) Course content varies with topic. Designed to enhance the Honors College experience. May be repeated provided a different topic is covered. Prerequisites: entry into Honors College; consent of instructor.

Upper Division

HONR 370-379 HONORS SPECIAL JUNIOR-YEAR TOPICS (1-6) Course content varies with topic. Designed to enhance the Honors College experience. May be repeated provided a different topic is covered. Prerequisites: entry into Honors College; consent of instructor.

HONR 470-479 HONORS SPECIAL SENIOR-YEAR TOPICS (1-6) Course content varies with topic or instructor or team instructors. Designed to enhance the Honors College experience. May be repeated provided a different topic is covered. Prerequisites: entry into Honors College; consent of instructor.

HONR 490-491 TRAVEL/STUDY IN HONORS (3-6) Countries and topics to be selected by faculty members sponsoring the program. May be repeated.

INTERDISCIPLINARY STUDIES (IDFA, IDHP, IDHS, IDIS, IDLA and IDNM)

Lower Division

IDFA 201 AMERICAN VISION: BALTIMORE VISUAL AND PERFORMING ARTS (3) American culture through experiencing visual and performing arts of Baltimore. Includes field trips. GenEd II.B.1.

IDFA 203 CREATIVITY IN THE FINE ARTS (3) An application of the creative process through the arts. GenEd I.E.

IDFA 205 ETHICS IN FINE ARTS AND COMMUNICATION (3) Issues and dilemmas encountered by practitioners (compared to viewers and patrons) of fine arts and communication. Prerequisite: one course in MUSC, THEA, ART, DANC, MCOM, COMM or EMF.

IDHP 110 INFORMATION UTILIZATION IN THE HEALTH PROFESSIONS (3) Introduction to how information is identified, stored, accessed, verified, utilized, and conveyed. Not open to those who have successfully completed IDNS 110. GenEd I.B.

IDIS 101 INTRODUCTION TO LESBIAN AND GAY STUDIES (3) Interdisciplinary and cross-cultural examination of homosexualities, institutionalized homophobia, gay and lesbian culture and communities, and gay and lesbian political activism. GenEd II.C.3.

IDLA 100 USING INFORMATION EFFECTIVELY: LEARNING IN THE LIBERAL ARTS (3) Research techniques and presentation skills needed to be successful in liberal arts courses. Modes of thinking, critical thinking, methods of gathering data, data analysis, basics of statistics, and ethical issues in research.

IDNM 101 USING INFORMATION EFFECTIVELY IN SCIENCE (4) Introduction to information processing, problem solving techniques, creative thinking skills, communication skills, team building and professional ethics in a scientific environment. Emphasis will be placed on the use of information technology and primary research literature to retrieve, filter, process, and evaluate data and information. This course is intended for freshmen CSM students. GenEd I.B.

Upper Division

IDIS 411 AFRICAN AMERICAN PERSPECTIVES (3) Structured around a multi- and interdisciplinary approach, focuses on the experiences of African Americans. Designed to encourage development in an otherwise emotional area. Prerequisite: a course in African history, African American history, or African American literature or consent of instructor.

IDIS 465-467 TOPICS IN IRISH STUDIES (3) Variable topics. May be repeated for a maximum of 9 credits. Prerequisite: 3 hours of Irish studies or consent of instructor.

IDIS 470-479 SPECIAL TOPICS (3) Survey of literature and practical application of interdisciplinary issues. Field work may be required. Topics will vary. May be repeated for a maximum of 9 credits provided a different topic is covered. Graded S/U.

IDIS 495 INTERNSHIP IN INTERDISCIPLINARY STUDIES (3) Supervised experience in work setting to facilitate students' understanding of their concentration. May be repeated for a maximum of 6 credits. Can be applied toward major requirements only with approval of concentration's coordinator. Graded S/U.

IDLA 301 CITIES AND SUBURBS AS HUMAN HABITATS (3) Impact of cities and suburbs on environmental consequences of human habitation. Emphasis on historic and contemporary population densities, modes of transit, energy uses, consumption of resources, and urban and suburban planning. Prerequisites: one course from GenEd II.A.1, GenEd II.D., and one course from GenEd II.B.1 or GenEd II.C.1. GenEd II.A.2.

IDNM 305 ETHICS, SCIENCE AND SOCIETY (3) Integrity of scientific information, responsibilities of scientists and citizens for the conduct and use of science and technology, limits of technological solutions. Principles and case studies. Not open to those who successfully completed WRIT 335, CHEM 301, or CHEM 335. Prerequisites: two courses in BIOL, CHEM, GEOL, PHYS or PHSC, at least one with laboratory; ENGL 102; one course in GenEd II.B. GenEd II.A.2.

IDNM 307 WOMEN, GENDER AND SCIENCE (3) Understanding women in the context of the natural sciences, including historical and contemporary contributions by women scientists; critique of science

education and research design; professional and educational discrimination; career challenges and options; guidelines for non-sexist research design. Prerequisites: one course from GenEd II.A.1 and one from GenEd I.C. GenEd II.A.2.

IDNM 309 WOMEN, SOCIETY AND RADIATION SCIENCE (3) Gender bias in contemporary physical science using the feminist critique; impact of research in radiation science on society and women's lives. Three lecture hours. Prerequisites: two science courses (fulfillment of GenEd II.A.1) and one mathematics course (fulfillment of GenEd I.C.), or consent of instructor. GenEd II.A.2.

IDNM 311 HUMAN GENETICS (3) Topics include: information flow, cell division and gamete formation, transmission of genes, molecular genetics, mutations, biotechnology, genetic basis of behavior, genetic basis of disease, nature vs nurture debate and social implication of human genetic studies on society. Prerequisite: BIOL 110, BIOL 112. Satisfies GenEd Category II.A.2.

IDNM 313 PLAGUES AND PEOPLE (3) Biological basis of infectious disease and how those principles can be applied for a better understanding of historical events, current issues facing society and future perspectives. Prerequisite: BIOL 110.

INTERNATIONAL STUDIES (INST)

INST 100 THE WORLD TODAY (3) Effectively access, evaluate and use the best sources of information available from the Internet, the library and other resources. GenEd I.B.

INST 494 INTERNATIONAL STUDIES ABROAD (3) Independent study of the culture, history, economy and society of the country students intend to visit. Taught in three segments over three semesters (including one semester abroad). Fulfills one requirement for the International Credential. Prerequisites: Students must be registered in an approved study abroad program, experiential learning abroad program, or international internship; COMM 379 and permission of coordinator of International Studies.

INST 496 INTERNATIONAL RESEARCH (3) Independent research, taught over two semesters with one semester abroad. Prerequisites: Students must be registered in an approved study abroad program, experiential learning abroad program or international internship; COMM 379 and permission of coordinator of International Studies.

INSTRUCTIONAL TECHNOLOGY (ISTC)

Lower Division

ISTC 201 USING INFORMATION EFFECTIVELY IN EDUCATION (3) An introduction to gathering, evaluating, and communicating information. Emphasis will be on using team collaboration and problem solving to examine current issues in education. GenEd I.B.

ISTC 269 LABORATORY IN INSTRUCTIONAL HARDWARE (1-2) Emphasizes the development of skills required in the operation of selected instructional hardware. Required of all Secondary Education majors; ISTC 301 may also be used to fulfill this requirement. Not open to students who successfully completed ISTC 301 or ISTC 415.

Upper Division

ISTC 301 [501] UTILIZATION OF INSTRUCTIONAL MEDIA (3) Materials, devices, techniques and settings are presented in an overview of the field of instructional technology. Laboratory experiences are provided in the operation of instructional hardware. Must be taken for 2 credits if students have taken ISTC 269. Prerequisite: junior/senior standing or departmental approval.

ISTC 302 DESIGN AND PRODUCTION OF INSTRUCTIONAL MATERIALS (3) Students are required to design and produce selected instructional materials. Prerequisite: junior/senior standing or departmental approval.

ISTC 304 THE PRODUCTION OF INSTRUCTIONAL PRESENTATIONS (3) Emphasis is placed on both the basic knowledge and skills necessary to produce instructional presentations in four major formats: audio tape, video format, synchronized side-tape program and super 8mm film properly sequenced. Students acquire experience in producing each of the four types of production as well as developing instructional guides accompanying each. Prerequisite: junior/senior standing.

ISTC 305 WRITING SKILLS FOR MEDIA CAREERS (3) Development of competencies for the specialized writing of professional careers in media. Prerequisites: ENGL 102 or ENGL 190 and 6 credits in ISTC or consent of instructor.

ISTC 311 MEDIA CENTER ADMINISTRATION (3) An examination of the organization and administration of media centers for service to students and faculty in school settings, such as self-contained classrooms, open-space schools, and in independent study situations. Specific topics include planning and equipping media centers, routines, budgets, personnel and criteria for evaluating school media services. Prerequisite: junior/senior standing.

ISTC 313 EVALUATION AND SELECTION OF MEDIA (3) A study of evaluating techniques for print and nonprint media. Prerequisite: junior standing or above.

ISTC 397 STUDENT TEACHING: THE MEDIA CENTER IN THE ELEMENTARY SCHOOL (6) Supervised media center practice in an elementary or middle school. Graded S/U. Prerequisites: ISTC 475, admission by consent of department coordinator, approval of director of Center for Applied Skills in Education (CASE) and completion of Basic Skills Test; 2.75 QPA. Application must be made to ISTC coordinator by mid-semester prior to semester of enrolling.

ISTC 398 STUDENT TEACHING: THE MEDIA CENTER IN THE SECONDARY SCHOOL (6) Supervised media center practice in a secondary school. Graded S/U. Prerequisites: ISTC 477; admission by consent of department coordinator, approval of director of Center for Applied Skills in Education (CASE) and completion of Basic Skills Test; 2.75 QPA. Application must be made to ISTC coordinator by mid-semester prior to semester of enrolling.

ISTC 441 [541] COMPUTER TECHNOLOGY AND UTILIZATION (3) Exploratory course concerned with the rationale for and use of computers in learning and related administrative matters. Techniques are examined for the organization, storage, processing and retrieval of data. Applications include the computer for instruction, the management of instruction, simulation, generation of graphics, and accounting for software and hardware. (Note: The course will not prepare students for occupations in computer science.) Prerequisite: junior/senior standing.

ISTC 453 [553] INTRODUCTION TO INSTRUCTIONAL PHOTOGRAPHY (3) Basic planning and darkroom methods for preparing photographic materials. Although the thrust of the course is the black-and-white mode, color slides and other special topics are treated. Principles of visual literacy are stressed. Students are required to demonstrate competencies in darkroom utilization and print critiquing as well as print production. Prerequisite: consent of department chair.

ISTC 471 [571] REFERENCE AND INFORMATION SOURCES (3) The bibliographic method, fundamental reference sources and searching techniques for print and non-print materials are examined. Students are required to demonstrate competencies in the use of reference sources. Prerequisite: junior/senior standing.

ISTC 473 [573] CATALOGING AND CLASSIFICATION OF MEDIA (3) Cataloging, subject analysis, classification and bibliographic control. The use of commercial processing services and central processing in the school system. The concept of a unified catalog and materials center for print and non-print materials is stressed. Prerequisite: junior/senior standing.

ISTC 475 METHODS FOR MEDIA PERSONNEL IN THE ELEMENTARY SCHOOL (2) The evaluation of the school library media center's function and services in curriculum work with teachers and students. Graded S/U.

ISTC 477 METHODS FOR MEDIA PERSONNEL IN THE SECONDARY SCHOOL (2) The evaluation of the school library media center's function and services in curriculum work with teachers and students. Methods of preparing and utilizing the media program. To be taken prior to ISTC 398. Graded S/U. Prerequisite: admission by consent of the ISTC coordinator. Special permit.

ISTC 495 INDEPENDENT STUDY IN INSTRUCTIONAL TECHNOLOGY (1-3) Individual and supervised study of research problems and special projects in specific areas of instructional technology. Prerequisites: junior/senior standing and special permit.

ISTC 497 INTERNSHIP IN LIBRARY SERVICES (6) The student works in a library media setting under faculty and professional supervision. Prerequisites: major, senior standing, consent of program coordinator and completion of Basic Skills Test. Application must be made to ISTC coordinator by mid-semester prior to semester of enrolling.

Graduate Division

See TU *Graduate Catalog* for course descriptions.

ITALIAN (ITAL)

Lower Division

ITAL 101-102 ITALIAN ELEMENTS I, II (3,3) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation. GenEd II.C.1.

ITAL 201-202 ITALIAN INTERMEDIATE I, II (3,3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisites: ITAL 101-102 or equivalent. GenEd II.C.3.

Upper Division

ITAL 301-302 ITALIAN COMPOSITION AND CONVERSATION I, II (3,3) Composition and conversation beyond the intermediate level. Conducted in Italian. Prerequisites: ITAL 201-202 or equivalent. GenEd II.C.3.

ITAL 321-322 SURVEY OF ITALIAN LITERATURE I, II (3,3) A thorough examination of Italian literature from the 13th century to the present. Conducted in Italian. Prerequisites: ITAL 201-202.

ITAL 370-379 SPECIAL TOPICS IN ITALIAN (3-6) Specialized topics in language and culture. Content varies. May be repeated once for credit provided a different topic is covered. Prerequisite: ITAL 202 or equivalent.

ITAL 494 TRAVEL STUDY ABROAD (3-16) Italian language, culture, civilization and literature at approved study abroad sites in Italy. Prerequisite: approval of department chair.

JAPANESE (JPNS)

Lower Division

JPNS 101-102 JAPANESE ELEMENTS I, II (3,3) Development of elementary vocabulary and sentences, forms of written language, conversation, composition and translation. Uses the techniques of programmed instruction. GenEd II.D.

JPNS 201-202 JAPANESE INTERMEDIATE I, II (3,3) Review of elementary Japanese; intermediate Kanji; conversation and prose composition; translations; outside readings commensurate with the ability of individual student. Uses the techniques of programmed instruction. Prerequisites: JPNS 101-102. GenEd II.D.

Upper Division

JPNS 301-302 JAPANESE COMPOSITION AND CONVERSATION I, II (3-3) Composition and conversation beyond the intermediate level. Conducted in Japanese. Prerequisites: JPNS 201-202 or equivalent. GenEd II.D.

JPNS 492 DIRECTED READINGS IN JAPANESE (1-3) Independent reading in sources written in Japanese. Prerequisites: JPNS 301-302 or equivalent, consent of department chair.

JPNS 494 JAPANESE TRAVEL AND STUDY ABROAD (3-16) Study of language, literature and/or culture at a Japanese university. Contact department chair and Office of International Education. Prerequisites: consent of Japanese Study Abroad Program and department chair.

KINESIOLOGY (KNES)

Lower Division

KNES 111-284 These courses include a variety of professional lab skills for majors, as well as team sports for both majors and non-majors. For specific titles, credits, descriptions, and prerequisites, consult the Department of Kinesiology.

KNES 196, 296, 396, 496 INDEPENDENT STUDY (.5-3) Designed to permit students to take courses which they cannot arrange within the regular semester schedule. All work will be under the direct supervision of an assigned faculty member. May be repeated for a maximum of 6 credits. Prerequisite: consent of department chair.

KNES 235 INDIVIDUALIZED FITNESS (3) Individual fitness and lifestyle will be examined. Fitness components (cardio-respiratory, muscular, flexibility, weight control and psychosocial) will be assessed and evaluated, and exercise prescriptions will be formulated for each individual. GenEd II.B.3.

KNES 239 PHYSICAL FITNESS ACTIVITIES (1) Development, administration and evaluation of fitness activities for selected populations.

KNES 245 CAMP LEADERSHIP (2) The role of the camp counselor in organized camping. Emphasis on camp related skills of campcraft, trips, crafts and nature study. Several field trips.

KNES 247 OFFICIATING I (2) A study of the art of officiating through lectures, films, discussions and practical application. Covers swimming, volleyball, wrestling, football, basketball and field hockey. Open to majors and non-majors.

KNES 248 OFFICIATING II (2) A study of the art of officiating through lectures, films, discussions and practical application. Covers track, softball, lacrosse, baseball, tennis and gymnastics. Open to majors and non-majors.

KNES 255 ADVANCED INDIVIDUALIZED FITNESS (3) Structure and function of the physiological components of large muscle activity and their relationship to the development and maintenance of fitness. Prerequisites: one beginning level fitness course.

KNES 269 LIFEGUARD TRAINING (2) An advanced course in life-guarding techniques for swimming pools and open-water beach areas. Prerequisites: KNES 165 and HLTH 103 or equivalent.

KNES 270-275 SPECIAL TOPICS IN PHYSICAL EDUCATION (1-3) Designed for study of special topics of current interest in physical education, athletics and their related fields. Objectives and content for each topic are reviewed and approved by the physical education faculty. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisite: consent of instructor.

KNES 279 TECHNIQUES OF TEACHING CREATIVE MOVEMENT (1) A student-directed approach to the teaching of creative movement to all age levels, pre-school to senior citizen. Includes learning and utilization of basic rhythmic concepts.

KNES 281-282 PHYSICAL EDUCATION FOR ELEMENTARY EDUCATION STUDENTS I, II (1, 1) Designed for the teacher of elementary school children to gain an understanding of and develop a basic ability in the basic skills of children's activities. Provides opportunity to become familiar with methods of learning skills and to appreciate the needs of the individuals in motor learning and analysis of group behavior.

KNES 283 PHYSICAL EDUCATION ACTIVITIES FOR THE YOUNG CHILD (1) Provides Physical Education majors with practical knowledge of appropriate movement experiences for use in a developmental program of physical education for children in grades K-3.

KNES 284 PHYSICAL EDUCATION ACTIVITIES INTERMEDIATE GRADES (4-6) Provides Physical Education majors with practical knowledge of appropriate movement experiences for use in a developmental program of physical education for children in grades 4-6. Prerequisite: KNES 283.

KNES 291 INTRODUCTION TO ATHLETIC TRAINING (1) The athletic trainer as an allied health care professional; manual skills required in the profession. Prerequisite: athletic training major.

KNES 298 HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION (3) Foundations of physical education.

Upper Division

KNES 301 INTRODUCTION TO RECREATION AND LEISURE (3) Recreation and leisure related to individuals, special populations and society. The impact of recreation and leisure concepts and theories on time and work. Out-of-class experiences required.

KNES 302 CURRICULUM IN PHYSICAL EDUCATION (3) Physical education as a part of general education, aims and content. Principles for development of a sequential physical education curriculum in grades 1-12. Prerequisites: KNES 298, PSYC 201.

KNES 303 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (3) Provides experiences for students in administrative problems and procedures from the perspective of the administrator, and presents the learner with knowledge of the administrative responsibilities associated with the physical education teacher. Prerequisites: KNES 298 and KNES 324 or KNES 325.

KNES 305 OUTDOOR EDUCATION: PHILOSOPHY AND METHODS (3) Examination of the rationale and basic structure of outdoor education programs. An investigation of effective teaching techniques and procedures for outdoor education. Field experiences are required (students may have to provide their own transportation and equipment). Utilizes an interdisciplinary approach and is team taught. Prerequisites: junior or senior standing and one of the following: KNES 324, KNES 325, or Education Methods courses.

KNES 307 TEACHING APPRENTICESHIP (.5-1) Students with a high degree of competency may request to be assigned to assist a faculty master teacher in class instruction and evaluation. May be repeated

- for a maximum of 1 credit. Prerequisites: junior-senior status; advanced skill level; approval of chair of kinesiology, director of major program and faculty member concerned.
- KNES 309 TESTS AND MEASUREMENT IN PHYSICAL EDUCATION (3)** Background for development of measurement programs in physical education; elementary statistical procedures; interpretation of data; selection and administration of tests measuring fitness, motor ability and sports skills applicable to various grade and age levels.
- KNES 311 BIOMECHANICS(3)** Mechanical and anatomical analysis of movement in relation to human performance. Three lecture hours and two hours of laboratory experience. Prerequisites: PHYS 202 or CHEM 105, BIOL 213-214.
- KNES 313 PHYSIOLOGY OF EXERCISE (3)** Application of principles of physiology to large muscle activity, with special emphasis on the interrelations of muscular, nervous, circulatory and respiratory functions during exercise. Prerequisites: BIOL 213-214.
- KNES 315 CARE AND PREVENTION OF ATHLETIC INJURIES (3)** Lecture and practical experiences in the study of modern theories and principles of athletic training mechanisms, nature and causes of the most common sports-related injuries. Prerequisite: BIOL 213.
- KNES 324 TEACHING PHYSICAL EDUCATION IN ELEMENTARY SCHOOL (2-3)** Responsibilities of the elementary school physical education teacher, including class organizational procedures, a variety of teaching methods, lesson and unit plan development, and content appropriate for the elementary school child. Includes observation and teaching experiences with elementary school children at various ages. Prerequisites: KNES 298, KNES 283, KNES 284 for physical education majors, and KNES 281, KNES 282 for elementary education majors.
- KNES 325 TEACHING PHYSICAL EDUCATION IN SECONDARY SCHOOL (3)** Responsibilities of the secondary school physical education teacher, including class organizational procedures, variety of teaching methods, lesson and unit planning, and topics resulting from the observation/participation experience in a secondary school. Prerequisites: KNES 298, laboratory skills in team and individual sports.
- KNES 331 PRINCIPLES OF COACHING (3)** Develops within each student an educationally sound philosophy of coaching. Emphasis on learning and understanding the principles and guidelines of good coaching and the application of human psychology as it relates to the coach and athlete in their unique relationship. Prerequisite: PSYC 101 or consent of instructor.
- KNES 333 SPORT MANAGEMENT (3)** Managing an organization providing sport/fitness activities products or services. Prerequisite: ACCT 210.
- KNES 335 PRINCIPLES AND TECHNIQUES OF WRAPPING AND TAPING (1)** Laboratory study and application of bandaging and taping for preventive and therapeutic purposes in athletic training. Prerequisite: KNES 315.
- KNES 337 ADVANCED TECHNIQUES AND ANALYSIS OF COACHING IN SELECTED TOPICS (3)** Theoretical and practical application of principles and techniques of coaching offensive and defensive techniques; strategy, scouting, organizing practice and utilizing staff. Prerequisite: KNES 331.
- KNES 341 CONCEPTS OF MOTOR LEARNING (3)** Study of effects of sensation and perception, reaction time, knowledge of results, retention, transfer, physical and mental practice, and motivation on learning and performing motor skills. Prerequisite: PSYC 101 or consent of instructor.
- KNES 349 THE MODERN OLYMPIC GAMES (3)** A socio-historically based interpretation of the modern Olympic Games as athletic festival, social construction, cultural symbol, philosophic movement, and worldstage phenomenon.
- KNES 351 PHILOSOPHY: THE SPORT EXPERIENCE (3)** Philosophy of sport and the body, including the major philosophical schools of thought and their implications on physical education. Prerequisite: PHIL 101 or PHIL 111 or consent of instructor. GenEd I.D.
- KNES 353 SPORT AND SOCIETY (3)** Explores relationships between sport and social institutions. Prerequisite: SOCI 101. GenEd I.D.
- KNES 355 PSYCHOLOGY OF SPORT (3)** Designed to study the psychological correlates of sport. The approach will be one of understanding and application of the literature and research design of sport psychology publications. Prerequisite: PSYC 101.
- KNES 357 SPORT IN FILM (3)** Meaning of sport in 20th-century western culture through film. Prerequisite: ENGL 102/190. GenEd. I.D.
- KNES 361 EXERCISE PSYCHOLOGY (3)** Contemporary research and theory, including exercise and fitness motives, psychological effects, theoretical models of exercise behavior, motivating behavior, cognitive and behavioral change strategies. Prerequisite: PSYC 101.
- KNES 363 NUTRITION FOR EXERCISE AND SPORT (3)** Critical and practical aspects of nutrition related to exercise and sport. Prerequisite: BIOL 213, BIOL 214.
- KNES 365 EXERCISE TESTING AND PRESCRIPTION (3)** Theoretical concepts and application skills; includes assessment of components of fitness, exercise prescription for apparently healthy and special-concerns populations. Prerequisites: KNES 235, BIOL 214, KNES 313.
- KNES 369 PRACTICUM IN EXERCISE SCIENCE (3)** Supervised clinical experience in the Towson University Wellness Center assisting fitness instructors. Prerequisite: KNES 365.
- KNES 381 BASIC CLINICAL ATHLETIC TRAINING I (1)** Observe and perform professional skills under the supervision of a certified athletic trainer. Prerequisite: athletic training major-sophomore status; concurrent with KNES 315. Graded S/U.
- KNES 382 BASIC CLINICAL ATHLETIC TRAINING II (1)** Observe and perform professional skills under the supervision of a certified athletic trainer; focuses on manual skills required in injury evaluation. Prerequisite: athletic training major-sophomore status; concurrent with KNES 429. Graded S/U.
- KNES 385 INTERMEDIATE CLINICAL ATHLETIC TRAINING I (1)** Observe and perform professional skills under the supervision of a certified athletic trainer; focuses on selected manual skills. Prerequisite: athletic training major-junior status; concurrent with KNES 428. Graded S/U.
- KNES 386 INTERMEDIATE CLINICAL ATHLETIC TRAINING II (1)** Observe and perform professional skills under the supervision of a certified athletic trainer; focuses on manual skills related to therapeutic exercise. Prerequisite: athletic training major-junior status; concurrent with KNES 427. Graded S/U.
- KNES 388 ADVANCED CLINICAL ATHLETIC TRAINING I (1)** Observe and perform professional skills under the supervision of a certified athletic trainer; focuses on assessment techniques for cranial injury, spinal cord injury, and injury to the thorax and visceral region. Prerequisite: athletic training major-senior status. Graded S/U.
- KNES 389 ADVANCED CLINICAL ATHLETIC TRAINING II (1)** Observe and perform professional skills under the supervision of a certified athletic trainer; focuses on selected manual techniques. Prerequisite: athletic training major-senior status; concurrent with KNES 431. Graded S/U.
- KNES 392 ELEMENTARY STUDENT TEACHING (7)** Practical experiences in observation, participation and student teaching in elementary public schools under the guidance of master teachers and a university supervisor. Not open to those who successfully completed ELED 392. Prerequisite: approval of coordinator, KNES Student Teaching and Internships, and director of Center for Applied Skills in Education.
- KNES 393 A WORLD HISTORY OF SPORT TO 1900 (3)** Explores sport and physical education in context of social, economic, and political influences. Focuses upon Greece, Rome, Western Europe to ca. 1900. Prerequisite: KNES 298 or one history course.
- KNES 394 SECONDARY STUDENT TEACHING (7)** Practical experience in observation, participation, and student teaching in secondary public schools under the guidance of master teachers and a university supervisor. Not open to those who successfully completed SCED 392. Prerequisite: approval of coordinator, KNES Student Teaching and Internships, and director of Center for Applied Skills in Education.
- KNES 395 KINESIOLOGY INTERNSHIP (3)** Internship in Sport Studies, Sport Management or Exercise Science. May be repeated for a maximum of 6 credits. Graded S/U. Prerequisites: junior/senior standing; special permit required.
- KNES 397 INTERNSHIP IN CAMPING OR OUTDOOR EDUCATION (3)** Allows academic and practical experience for students in the camp program or outdoor education area of their choice. Students will participate as a volunteer, aide or staff member. Seminars will be held to discuss experiences. Students should expect to pay for their transportation, meals and lodging during the practicum experience. The course will be offered primarily during the minimester and summer sessions. May be repeated for a maximum of 6 credits. Prerequisite: KNES 245 or KNES 305 or consent of instructor.

- KNES 399 DIFFERENTIATED STUDENT TEACHING IN PHYSICAL EDUCATION (1-2)** An experience in student teaching in addition to the regular student teaching experience. May be repeated for a maximum of 6 credits.
- KNES 403 ORGANIZATION AND ADMINISTRATION OF INTRAMURALS (3)** Permits students to acquire the skills of administration necessary in the development and organization of intramural programs in schools and colleges.
- KNES 409 [509] STRESS MANAGEMENT, TENSION CONTROL AND HUMAN PERFORMANCE (3)** Presents information about the manifestation of stress and systematic programs for tension control. The correlates surrounding progressive muscle relaxation and biofeedback are explored in detail, as well as the neurological responses which produce tension responses. Lectures are combined with laboratory experiences in an effort to understand and practice relaxation techniques. Prerequisite: one psychology and/or biological sciences course.
- KNES 412 THEORY AND ANALYSIS OF GYMNASTICS MOVEMENT (3)** Theoretical and practical application of mechanical analysis of movement concepts as related to proper execution of skills in gymnastics. The techniques and methods used in this course are designed to provide the teacher a logical system for presenting gymnastic skills to facilitate learning for the student; to demonstrate that gymnastic skills are logically founded on basic physics or terrestrial mechanics; to present aiding and spotting techniques.
- KNES 415 [515] ADVANCED CARE AND PREVENTION OF ATHLETIC INJURIES (3)** Advanced principles of athletic training, including etiology, indications, evaluation and immediate management of selected complex injuries. Prerequisite: KNES 315 or consent of instructor.
- KNES 417 ORGANIZATION AND ADMINISTRATION OF ATHLETIC TRAINING (3)** Analysis and application of organizational skills and administrative structure of the athletic training profession, including record keeping, budgeting and a history of athletic training. Prerequisite: KNES 315. GenEd I.D.
- KNES 418 SPORT FACILITY MANAGEMENT AND OPERATIONS (3)** Indoor and outdoor facilities; budget, design, maintenance, operations, planning, renovations, scheduling and staffing.
- KNES 419 SWIMMING AND POOL MANAGEMENT (3)** Teaching methods for all levels of swimming and diving. Modern methods of training the competitive swimmer with emphasis on technique and conditioning of the individual. The organization and administration of swimming pools and clubs with regard to staff, recreation and pool filtration. This is a certifiable course for pool management, approved by the Department of Health, Baltimore County. Prerequisites: KNES 261 and KNES 262.
- KNES 421 PHYSICAL EDUCATION PROGRAM IN THE ELEMENTARY SCHOOLS (3)** Current trends and issues in curriculum development, methods and materials and research concerned with elementary school physical education programs. Prerequisite: KNES 324.
- KNES 423 [523] ADAPTIVE PHYSICAL EDUCATION (3)** Recognition of pupils with physical deviations and use of special or modified physical education activities. Prerequisites: KNES 311, KNES 324 or KNES 325, BIOL 213-214.
- KNES 425 ADAPTED PHYSICAL EDUCATION FOR SPECIAL EDUCATION MAJORS (3)** Preparation, implementation and evaluation of developmentally appropriate activities and lessons for students with disabilities, pre-school through 21 years. Prerequisite: KNES 281.
- KNES 426 [526] MOTOR DEVELOPMENT: INFANTS TO ADULTS (3)** Research of literature in motor development and performance of the individual from infancy through adulthood. Impact of motor development on cognitive, affective and psychomotor development.
- KNES 427 THERAPEUTIC EXERCISE IN ATHLETIC TRAINING (3)** Analysis and application of comprehensive therapeutic exercise techniques and the development of rehabilitation programs for physically active individuals. Prerequisite: KNES 415.
- KNES 428 THERAPEUTIC MODALITIES IN ATHLETIC TRAINING (3)** Analysis and application of modalities in the treatment and rehabilitation of injuries. Prerequisites: KNES 315, KNES 415.
- KNES 429 PHYSICAL ASSESSMENT FOR ATHLETIC TRAINING (3)** Analysis and performance of comprehensive evaluation of injuries commonly sustained in athletics. Prerequisites: KNES 315, KNES 415.
- KNES 430 [530] MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (3)** Application of problem solving and individualized methods of teaching of movement for the elementary school child. Development of programs and materials for teaching creative dance, games and sports. Survey of current literature.
- KNES 431 SEMINAR IN ATHLETIC TRAINING (2)** Roles, responsibilities of medical and paramedical personnel comprising the sports medicine team. Prerequisites: KNES 428 and KNES 429.
- KNES 433 APPLIED SPORT AND EXERCISE PSYCHOLOGY (3)** Applications of sport and exercise psychology theory to sport and exercise settings. Prerequisite: KNES 355 or KNES 361.
- KNES 435 [535] PROGRAMS IN OUTDOOR EDUCATION (3)** Examines the varied programs in outdoor education offered within the state, nation and selected foreign countries. Traditional and innovative programs will be reviewed. Concepts revealed will be contrasted with meeting educational objectives. Several field trips are required. Open to Education majors. Prerequisite: 6 hours of physical education, recreation or education.
- KNES 437 SPORT AND THE MEDIA (3)** Symbiotic relationship between sport and electronic/print media. Prerequisite: KNES 353.
- KNES 441 [541] THE AMERICAN WOMAN IN SPORT (3)** Historical, physiological, psychological, sociological and philosophical perspectives and societal attitudes toward women who participate in sport. Prerequisite: PSYC 101 or SOCI 101 or WMST 231.
- KNES 451 [551] HISTORY OF AMERICAN SPORT (3)** Explores sport in American society from a historical perspective, emphasizing content and methods in sport history. Prerequisite: KNES 298 or HIST 145 or HIST 146 or HIST 148.
- KNES 452 SPORT MARKETING (3)** Fundamental marketing theories and principles applied to the selling of sports: focusing on the concepts and practices forming the knowledge base for effective marketing strategies in sports. Prerequisite: MKTG 341.
- KNES 453 SPORT ADMINISTRATION (3)** Designed to aid persons responsible for organizing and administering intramural and interschool athletic programs. Topics such as organizational patterns, objectives of the programs, controls, game management, records, conduct of tournaments, officials, awards and means of promoting the programs will be considered. Study will be made of competitive as well as informal recreation programs on all educational levels, with special emphasis on the secondary schools. Prerequisite: junior/senior standing in kinesiology.
- KNES 455 [555] PHYSICAL ACTIVITY PROGRAMMING FOR THE OLDER ADULT (3)** Application of physiological, psychological, sociological and motor learning principles to the development of physical activity programs for older adults. Prerequisite: PSYC 203 or consent of instructor.
- KNES 457 PHYSIOLOGY OF AGING (3)** Interaction of physical, psychological, social and environmental systems in the aging process from the late-middle to old age. Prerequisites: PSYC 101, KNES 313.
- KNES 469 RESEARCH METHODS IN EXERCISE SCIENCE (3)** Prepares students to read and interpret research in exercise science. Topics include scientific process, research questions and theories, literature review, research methods and measurement, data analysis, and reporting. Prerequisites: ENGL 102/190, KNES 309. GenEd I.D.
- KNES 470-479 [570-579] SELECTED TOPICS IN PHYSICAL EDUCATION (1-3)** Workshop designed for study of special topics of current interest in physical education and athletics. Content varies and will focus on substantive material or operational problems. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisite: consent of workshop director and/or graduate program director.
- KNES 494 [594] TRAVEL STUDY (3)** Study of selected physical education programs, practices or facilities. Study group will be accompanied by TU Department of Kinesiology faculty member. Prerequisites: as specified in course outline and consent of instructor.
- KNES 496 [596] INDEPENDENT STUDY (1-3)** Designed to permit students to take courses which they cannot arrange within the regular semester schedule. All work will be under the direct supervision of an assigned faculty member. No more than 3 credits may be earned in Independent Study unless permission of department chair is obtained.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

LATIN (LATN)**Lower Division**

LATN 101-102 LATIN ELEMENTS I, II (3, 3) The fundamentals of Latin grammar will be taught and related to French, Italian and Spanish. Selections from elementary texts will be read. GenEd II.C.1.

LATN 201-202 LATIN INTERMEDIATE I, II (3,3) A review of grammar studied in Latin Elements, continuing to the study of advanced grammar and syntax. Long passages by Latin authors will introduce the study of Latin stylistics as well as Roman history and culture. Prerequisites: LATN 101-102 or consent of instructor. GenEd II.C.1.

Upper Division

LATN 301-302 ADVANCED READINGS IN LATIN I, II (3,3) Study of selected texts from Classical Latin prose and poetry with special attention to review of grammar, vocabulary and styles of translation. Prerequisites: LATN 201-202 or equivalent or consent of instructor. GenEd II.C.1.

LATIN AMERICAN STUDIES (LAST)**Lower Division**

LAST 100 LATIN AMERICA: ISSUES AND APPROACHES (3) Multiple disciplinary approaches to leading issues in recent Latin America. Access, evaluate and use information. GenEd I.B.

Upper Division

LAST 491-492 DIRECTED READINGS IN LATIN AMERICAN STUDIES (3) Independent reading in Latin American Studies in a topic selected by the student in consultation with the instructor(s). May be repeated for a maximum of 6 credits. Prerequisites: advanced undergraduate standing and consent of instructor.

LAST 497 INTERNSHIP IN LATIN AMERICAN STUDIES (3-6) Training and experience with public and private organizations. May be repeated for a maximum of 6 credits. Graded S/U. Prerequisites: 27 upper division credits and consent of instructor.

LAW AND AMERICAN CIVILIZATION (LWAC)**Upper Division**

LWAC 491 THESIS IN LAW AND AMERICAN CIVILIZATION (3) Students will research and write a major essay which focuses on some aspect of law in American society and civilization. The final topic must be approved by the director, and students will defend their theses before the Law and American Civilization coordinating committee. Prerequisites: open only to majors who have completed at least 33 credits in the major, consent of instructor.

LWAC 497 PRACTICUM IN LAW AND AMERICAN CIVILIZATION (3) Practicum in a law firm, in a court or in business. Prerequisite: open only to students majoring in Law and American Civilization who have earned a cumulative QPA of 3.00.

LWAC 498 HONORS THESIS I: DIRECTED READINGS IN LAW AND AMERICAN CIVILIZATION (3) Readings and research in preparation for the writing of an honors thesis under the supervision of the director or one member of the Law and American Civilization advisory board. Prerequisites: open only to majors who have completed at least 30 credits in the major and have earned a cumulative QPA of 3.25 and a QPA of 3.50 in the major, consent of instructor.

LWAC 499 HONORS THESIS II: THESIS IN LAW AND AMERICAN CIVILIZATION (3) Research and writing of an honors thesis guided by the director or a member of the advisory board. Prerequisites: open only to majors who have completed at least 33 credits in the major and have earned a cumulative QPA of 3.25 and a QPA of 3.50 in the major, consent of instructor.

LEGAL STUDIES (LEGL)**Lower Division**

LEGL 225 LEGAL ENVIRONMENT OF BUSINESS (3) Sources of law and our legal system, emphasis on court jurisdiction, procedure, tort and criminal law, contracts, sales, anti-trust law, and workers

compensation and consumer, environmental and international law. Not open to those who successfully completed BULA 225.

LEGL 226 BUSINESS LAW (3) Law of agency, partnership, corporations, real and personal property, estates, bankruptcy, commercial paper and secured transactions. Not open to those who successfully completed BULA 226. Prerequisite: BULA 225 or LEGL 225.

Upper Division

LEGL 325 SPORTS LAW (3) Review of legal background of sports and recreation, analyzing torts, contracts, anti-trust issues, constitutional and labor law. Prerequisite: BULA 225 or LEGL 225.

LEGL 326 ELDER LAW (3) Court systems, guardianships, estates and trusts, asset planning, and Medicare/Medicaid implications. Prerequisite: junior standing.

LEGL 470-479 SPECIAL TOPICS IN LEGAL STUDIES (3) Course content varies with each topic. In-depth study of contemporary business issues as they affect current business law practice. May be repeated for credit provided a different topic is covered. Prerequisite: consent of instructor.

MANAGEMENT (MNGT)**Upper Division**

MNGT 337 INFORMATION TECHNOLOGY (3) Strategic, tactical and operational applications of information technology including management information systems, decision support systems, intelligent systems, strategic information systems and electronic commerce. Topics include data and knowledge management and networking computing. Not open to those who successfully completed MNGT 437. Prerequisite: COSC 111 or equivalent course.

MNGT 355 INTERNATIONAL BUSINESS (3) Global dimensions and interdependencies of business; international firms' strategies and structures for organizing; modes of entry; globalized functions of business. Prerequisites: junior/major standing and completion of all 200-level business administration core courses.

MNGT 361 MANAGEMENT AND ORGANIZATION THEORY (3) Nature, development and future prospects of management and organization theory. Management functions and processes in terms of planning, organizing, leading, controlling and communications. Exploration of social responsibility of business and international management. Prerequisite: junior standing.

MNGT 363 DECISION SCIENCES (3) Quantitative techniques for management practices; linear programming, transportation, decision theory, project scheduling, forecasting. Not open to those who completed MNGT 263. Prerequisites: COSC 111 or equivalent course and MATH 231 or ECON 205.

MNGT 365 PRINCIPLES OF OPERATIONS MANAGEMENT (3) Strategies and techniques for service and manufacturing operations. Prerequisites: junior standing, MNGT 263 or MNGT 363 and MNGT 361.

MNGT 381 HUMAN RESOURCE MANAGEMENT (3) Techniques and issues in acquiring, developing, motivating and maintaining a competent work force. Topics include equal employment opportunity, human resource planning, recruitment and selection, training and development, performance evaluations, motivation, compensation and benefits, labor relations, and safety and health. Prerequisites: junior standing, MNGT 361.

MNGT 419 SUPPLY-CHAIN MANAGEMENT (3) Materials management and materials support service and product delivery; technical support, materials handling, distribution/transportation strategies, impact on scheduling and inventory; international supply-chain management. Prerequisites: senior standing, MNGT 363.

MNGT 421 MANAGEMENT OF ORGANIZATIONAL BEHAVIOR (3) Performance management, jobs and design of work, work teams, power/politics, stress/well-being at work, career management, quality management. Prerequisite: MNGT 381.

MNGT 423 SERVICE OPERATIONS MANAGEMENT (3) Concepts and techniques of service operations management, emphasizing problem-solving methods and exercises. Prerequisite: MNGT 263 or MNGT 363.

MNGT 425 ORGANIZATION THEORY AND DEVELOPMENT (3) Design of complex organizations focusing on organizational structure, process, technology, growth, change and change agents and culture. Prerequisites: senior standing, MNGT 361.

MNGT 433 COMPENSATION AND BENEFITS (3) Analysis and management of compensation systems, job evaluation, wage levels, structures, and planning for the public and private sectors. Prerequisites: senior standing, MNGT 263 or MNGT 363, MNGT 381.

MNGT 438 MULTINATIONAL MANAGEMENT AND CULTURE (3) Global strategy, management, and organization of multinational corporations; cultural differences and their influence on business interactions, modes of entry and ethics. Prerequisites: MNGT 361 and MNGT 355.

MNGT 443 PROJECT MANAGEMENT (3) Systematic approach to planning, scheduling and controlling organizational activities; timelines, budgets and quality criteria. Prerequisite: MNGT 365.

MNGT 451 INDUSTRIAL RELATIONS (3) Nature, development and process of labor-management relationships. Labor laws, organizing, contract negotiations, grievances and arbitration, and future issues for unions. Prerequisites: senior standing, MNGT 381.

MNGT 453 CONFLICT RESOLUTION IN BUSINESS (3) Resolving disputes in business operations through negotiations, mediation and arbitration, as alternatives to litigation. Dispute areas include buyer/seller, management salaries, service contractor, real estate and other situations common to business. Prerequisites: senior standing, MNGT 361.

MNGT 455 ENTREPRENEURSHIP AND SMALL BUSINESS (3) The research and planning process needed to start a small business is emphasized. Entrepreneurial management strategies for marketing, finance and operations are studied. The preparation of a business plan is required. Prerequisites: FIN 331, MKTG 341, MNGT 365.

MNGT 461 TOTAL QUALITY MANAGEMENT (3) Understanding and implementing quality management in organizations. Topics include philosophy of quality, behavioral tools, statistical process control and implementation issues. Prerequisites: senior standing, MNGT 263 or MNGT 363, MNGT 365.

MNGT 463 ORGANIZATIONAL LEADERSHIP (3) Students experience various ways of thinking about and responding to the concept and processes of leadership and leadership behavior related to the management of human organizations. Prerequisites: senior standing, MNGT 361.

MNGT 470-479 SPECIAL TOPICS IN MANAGEMENT (3) Course content varies with each topic. In-depth study of contemporary business issues as they affect current management practices. May be repeated for credit provided a different topic is covered. Prerequisite: consent of instructor. Special permit only.

MNGT 481 BUSINESS STRATEGY AND POLICY (3) A capstone course integrating operational skills and theories and emphasizing managerial decision-making as it relates to strategic management and business policy in domestic and international operations. Not open to those who successfully completed Business Policy. Prerequisites: special permit or MNGT 263, senior standing, completion of FIN 331, MKTG 341, MNGT 363, MNGT 361, and MNGT 365, and MNGT 337 or MNGT 437.

MNGT 482 BUSINESS ETHICS AND SOCIETY (3) Interaction between business and its non-economic environments: ethical reasoning, stakeholder analysis, corporate responsibility, crisis management and business in the political process. Prerequisites: senior standing, MNGT 361.

MNGT 491 DIRECTED READINGS (1-3) Assigned readings in selected areas of management. A total of 6 credits for any combination of Directed Readings, Independent Study and Internship is allowed in the Management area of study. Prerequisites: consent of the instructor, a minimum of 3.00 cumulative QPA, completion of all 200- and 300-level management core requirements, and a special permit.

MNGT 495 INDEPENDENT RESEARCH (1-3) Directed research in specific areas of management. A total of 6 credits for any combination of Directed Readings, Independent Study and Internship is allowed in the Management area of study. Prerequisites: consent of the instructor, a minimum of 3.00 cumulative QPA, completion of all 200- and 300-level management core requirements, and a special permit.

MNGT 497 MANAGEMENT INTERNSHIP (3) Students are required to work in government or industry for a minimum of 120 hours to gain practical experience in the application of management concepts. All positions have been reviewed and approved by management faculty. A total of 6 credits for any combination of Directed Readings, Independent Study, and Internship is allowed in the management area of study. Prerequisites: consent of the instructor, a minimum

3.00 cumulative QPA, completion of MKTG 341, MNGT 361 and FIN 331, and special permit.

MNGT 498 PRACTICUM IN MANAGEMENT (3) Synthesis of management knowledge, skills and attitudes through professional responsibilities in employment, internship or comparable experience. Prerequisite: senior standing.

MARKETING (MKTG)

Upper Division

MKTG 341 PRINCIPLES OF MARKETING (3) Marketing problems of business firms. Influence of the marketplace, the industry structure, and the role of government. Prerequisite: junior standing.

MKTG 345 ADVERTISING MANAGEMENT (3) Promotional strategies for different classifications of products and services. Planning, preparing and scheduling advertisements. Media selection and determination of ad effectiveness. Advertising research. Prerequisite: junior standing.

MKTG 347 SERVICES MARKETING (3) Examines the marketing of services. The uniqueness of services marketing will be analyzed along with the similarities to product marketing. Selected topics among the following services will be examined: health care, museums, government services, travel, transportation, food, education, banking and legal services. The service aspects of product marketing will also be analyzed. Prerequisites: MKTG 341 and junior standing.

MKTG 349 PRODUCT DEVELOPMENT AND PLANNING (3) Development of new goods and services, including idea generation, concept evaluation, test marketing and product launch. Prerequisites: MKTG 341 and junior standing.

MKTG 351 SALES MANAGEMENT (3) Principles of successful selling, presenting, negotiating and managing a sales force. Prerequisite: MKTG 341.

MKTG 355 RETAIL MANAGEMENT (3) Provides students with an in-depth knowledge of marketing activities at the retail level in the business environment. Different types of retail institutions are examined as to the types of strategies employed in the performance of major functions, such as buying, merchandising, selling, advertising and physical operation. Key issues, such as market segmentation, geographical location and internal organization, are analyzed. Prerequisites: MKTG 341 and junior standing.

MKTG 357 MARKETING CHANNELS (3) Processes and interdependent institutions for transfer of product ownership from seller to buyer; structure, functions and activities of traditional and contemporary channels. Prerequisites: MKTG 341 and junior standing.

MKTG 361 MARKETING FOR NON-PROFIT ORGANIZATIONS (3) Analyzing marketing management approaches and techniques for non-profit sector; market-driven organizations; developing resources; designing and implementing the marketing mix. Prerequisites: MKTG 341 and junior standing.

MKTG 371 PRINCIPLES OF TRANSPORTATION (3) Economic and political factors affecting transportation and transportation systems. Development problems and government regulations. Study of freight and passenger carrier modes. Prerequisite: junior standing or consent of instructor.

MKTG 425 BUYER BEHAVIOR ANALYSIS (3) The behavior and motivation of the consumer and industrial buyer with emphasis on the analysis of buyer behavior from the standpoint of the business firm and its consequences to marketing strategy. Prerequisite: MKTG 341 (PSYC 209 recommended).

MKTG 441 MARKETING RESEARCH AND FORECASTING (3) Marketing research as a tool to facilitate the corporate decision-making process from sales research, market analysis through motivational analysis, advertising policy, and product and package design. Research design, sampling theory, data collection, interview techniques and statistical analysis. Prerequisites: MKTG 341; MATH 231 or ECON 205.

MKTG 442 MARKETING HONORS SEMINAR (3) Decision-making skills and the formulation of strategies and policy. Market segmentation, consumer behavior, pricing, product line strategy and promotion. Prerequisites: senior standing and consent of instructor.

MKTG 445 INTERNATIONAL MARKETING (3) Impact of international marketing environments on pricing, product, channels of distribution, advertising and promotion. Problems and obstacles related to market surveys and development of policies. Regional studies. Prerequisite: MKTG 341.

MKTG 470-479 SPECIAL TOPICS IN MARKETING (3) Course content varies with each topic. In-depth study of contemporary business issues and how they affect current marketing practices. May be repeated for credit provided a different topic is covered. Prerequisite: consent of instructor. Special permit only.

MKTG 485 STRATEGIC MARKETING (3) Capstone course emphasizing management of marketing activities and development of implementation of product, pricing, promotion and distribution. Prerequisites: MKTG 341 and 6 additional credits in marketing courses. Special permit required.

MKTG 491 DIRECTED READINGS (1-3) Readings in selected functional or conceptual areas of marketing. Prerequisites: consent of instructor, special permit.

MKTG 495 INDEPENDENT RESEARCH (1-3) Directed research on specific problems in a functional area of marketing. May be repeated for a maximum of 6 credits. Prerequisites: consent of instructor, special permit.

MKTG 497 MARKETING INTERNSHIP (3) Students are required to work a minimum of 120 hours in an actual business environment to gain practical application of marketing concepts. Upon completion, a formal written and oral presentation of the internship experience is required. Prerequisites: consent of instructor, minimum 3.00 QPA, special permit and completion of MKTG 341, MNGT 361, FIN 331.

MASS COMMUNICATION (MCOM)

Lower Division

MCOM 100 USING INFORMATION EFFECTIVELY IN MASS COMMUNICATION (3) Effective and ethical gathering, evaluation, application and presentation of information in the study of mass communication. GenEd I.B.

MCOM 101 INTRODUCTION TO MASS COMMUNICATION (3) Issues, theories and structures of mass communication and careers in the mass media.

MCOM 102 HONORS: INTRODUCTION TO MASS COMMUNICATION (3) Issues, theories and structures of mass communication and careers in the mass media. Prerequisite: consent of instructor.

MCOM 214 PRINCIPLES OF ADVERTISING (3) Review of contribution made by advertising to the United States economy and of the principles and practices as applied to mass media. Prerequisite: MCOM 101 or MCOM 125.

MCOM 253 PRINCIPLES OF PUBLIC RELATIONS (3) Research, theory, techniques: strategy, planning and management of public relations programs. Law, ethics and professionalism are covered. Prerequisites: COMM 131; MCOM 101 or MCOM 125.

MCOM 255 NEWSWRITING (3) Newswriting from the standpoint of style, structure and readability. Prerequisites: MCOM 101 or 151, one English composition course. Not open to students who have successfully completed MCOM 355.

Upper Division

MCOM 323 ADVERTISING MEDIA PLANNING (3) Strategic media decision making and the impact on marketing. Prerequisite: MCOM 214.

MCOM 325 ADVERTISING COPYWRITING (3) Creative process and production of copy for various media: print, broadcasting, direct mail and billboards. Prerequisite: MCOM 214.

MCOM 350 MEDIA LAW (3) Examination of libel, slander, invasion of privacy and copyright. Legal considerations in reporting on judicial and governmental activities. Prerequisites: MCOM 101 or MCOM 151 and EMF 140 or MCOM 140.

MCOM 352 MEDIA CRITICISM (3) Theory and practice of media criticism intended for various audiences, including consumer oriented criticism, social criticism and scholarly criticism. Prerequisite: MCOM 101 or MCOM 140 or EMF 140 or MCOM 151.

MCOM 356 FEATURE WRITING (3) Researching and writing journalistic articles for publication in newspapers, magazines and other media. Prerequisites: MCOM 255, one English composition course, and efficient typing skills. GenEd I.D.

MCOM 357 PUBLIC RELATIONS WRITING (3) Composing, editing and producing various media materials for both internal and external publications, including press releases, media kits, brochures and newsletters. Prerequisite: MCOM 253. GenEd I.D.

MCOM 358 NEWS EDITING (3) Practice in editing and headline writing for print and on-line media. Prerequisite: MCOM 255.

MCOM 359 MAGAZINE PUBLISHING (3) Examination of the principles, practices, problems and trends in magazine publishing through tracing the process of a magazine from copy to bindery. Steps in periodical production stressing emphasis on layout factors. Intensive analysis of magazine markets and case studies of magazine publishing problems. Prerequisite: MCOM 255.

MCOM 381 BROADCAST JOURNALISM (3) Theory and practice of broadcast journalism. The gathering, writing and presentation of news for audio-only and audio-visual media. Ethical standards for broadcast journalism will be analyzed. Prerequisites: MCOM 140 or EMF 140, and MCOM 255.

MCOM 383 NEWSREPORTING (3) Experience in reporting. Coverage of specific news beats on- and off-campus and general assignment work. Consideration of news-gathering techniques, including direct and participant observation, use of survey research data, and use of official records. Prerequisite: MCOM 255.

MCOM 385 MASS MEDIA AND SOCIETY (3) Seminar on current issues and effects of mass communication. Prerequisite: MCOM 101 or EMF 140, MCOM 140 or MCOM 151.

MCOM 391 PHOTOJOURNALISM I (3) Photography for the mass media. History, aesthetics and ethics are covered. Prerequisites: MCOM 255, PHSC 234 or ART 234, or consent of instructor.

MCOM 407 (507) WRITING FOR NEW MEDIA (3) Research and create multimedia news and feature articles incorporating hypertext, graphics, photographs, audio and video elements. Prerequisites: MCOM 356, MCOM 357, or MCOM 381 and consent of instructor.

MCOM 411 COMMUNICATION PROCESS (3) Prominent theories and research on mass media and human communication. Prerequisites: COMM 131 and junior standing.

MCOM 415 MASS MEDIA GRAPHICS (3) Communication potential of design elements in a variety of graphics using computer technology. Prerequisite: MCOM 358 or MCOM 391 or consent of instructor.

MCOM 431 [550] PUBLIC OPINION AND THE PRESS (3) Journalistic aspects of public opinion and propaganda; the impact of mass communication media on the formation of public opinion. Techniques of polling and testing public opinion. Not open to those who successfully completed MCOM 351.

MCOM 433 MEDIA ETHICS (3) Ethical principles, issues, dilemmas in mass communication; professional codes; personal, interpersonal, small group, organizational and societal factors affecting ethical mediated communication. Prerequisites: three of the following courses: MCOM 125, EMF 140, MCOM 140, EMF 145, MCOM 151, and junior/senior standing.

MCOM 440 ADVERTISING MEDIA SALES (3) Procedures for selling media space and time: strategy, training and preparation. Prerequisite: MCOM 325.

MCOM 443 [572] INTERNATIONAL ADVERTISING (3) Role of advertising and promotion in the world marketplace. Consideration of global and local perspectives, key decisions in agency operations, creative aspects and media. Not open to those who successfully completed MCOM 370.

MCOM 445 CORPORATE OR INSTITUTIONAL ADVERTISING (3) Techniques used by corporations to develop institutional messages for public presentations. Prerequisites: MCOM 214 and MCOM 253.

MCOM 447 [547] ADVERTISING CAMPAIGNS (3) Application of advertising principles and practices to the development of campaigns and the preparation of a plan book. Not open to those who successfully completed MCOM 360. Prerequisite: MCOM 325, which can be taken concurrently.

MCOM 451 [551] PUBLIC RELATIONS FOR NONPROFIT ORGANIZATIONS (3) Fund raising and development, implementing and evaluating public relations campaigns for nonprofit organizations. Practical experience lab sessions. Prerequisite: MCOM 357.

MCOM 453 [553] PUBLIC RELATIONS CAMPAIGNS (3) Strategies and case histories. Design of public relations programs for selected clients. Not open to those who successfully completed MCOM 453. Prerequisites: MCOM 253 and MCOM 357; MCOM 357 can be taken concurrently with Public Relations Campaigns.

MCOM 457 PHOTOJOURNALISM II (3) Color photography for the mass media, including electronic imaging. Prerequisite: MCOM 391.

MCOM 459 PROFESSIONAL ISSUES IN PUBLIC RELATIONS, ADVERTISING, AND INTEGRATED COMMUNICATIONS (3) Technical, managerial, legal and ethical issues emphasizing accreditation of standards of professional associations. Prerequisite: COMM 419 or MCOM 453 or MCOM 447.

MCOM 460-469 [560-569] INTERNSHIP IN MASS COMMUNICATION (1-6) Practical field experiences. Under faculty and I/CE supervision, students work as interns with a professional in some field of mass communication. Graded S/U. Prerequisites: junior/senior standing. Minimum overall GPA of 2.75 and 3.00 in the major. Completion of appropriate courses determined by the department. Please check with the I/CE office for specifics. Each number may be attempted for a maximum of 6 credits.

MCOM 479 SPECIAL TOPICS IN MASS COMMUNICATION (3) In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisite: junior/senior standing or consent of instructor.

MCOM 483 COMPUTER-ASSISTED REPORTING (3) Gathering, analyzing and writing about data for the news. Prerequisites: MCOM 255 and MCOM 383.

MCOM 490 MASS COMMUNICATION RESEARCH (3) Survey of methods and uses of research in mass media fields. Prerequisite: 18 credits of COMM or MCOM; junior/senior standing.

MCOM 496 INDEPENDENT STUDY IN JOURNALISM (1-6) Directed study through readings, projects, papers or seminars. May be repeated for a maximum of 6 credits. Prerequisite: MCOM 255 and consent of instructor.

MCOM 497 INDEPENDENT STUDY IN PUBLIC RELATIONS (1-6) Directed study through readings, projects, papers or seminars. May be repeated for a maximum of 6 credits. Prerequisite: MCOM 253 and consent of instructor.

MCOM 498 INDEPENDENT STUDY IN ADVERTISING (1-6) Directed study through readings, projects, papers or seminars. May be repeated for a maximum of 6 credits. Prerequisite: MCOM 214 and consent of instructor.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

MATHEMATICS (MATH)

Lower Division

MATH 105 MATHEMATICAL IDEAS (3) Basic concepts and ideas in mathematics are selected to explore the aesthetics and utility of mathematics. Topics are chosen from sets, counting methods, mathematical systems, basic rules of probability, statistics, logic, finance, geometry, numeration systems and modeling. Not counted towards nor required for Early Childhood Education or Elementary Education majors. Not open to those who successfully completed MATH 101 or MATH 106. Prerequisites: two years of algebra or DVMT 110, and one year plane geometry. GenEd I.C.

MATH 106 INTRODUCTION TO CONTEMPORARY MATHEMATICS (3) Contemporary applications are explored to illustrate the nature of mathematics, its role in society, and its practical and abstract aspects. Topics are chosen from networks and graphs, the traveling salesman problem, scheduling problems, collecting and describing data, coding information, voting systems, fair division, fractal geometry, and growth and symmetry. Not open to students who successfully completed MATH 105. Prerequisites: two years of algebra or DVMT 110, and one year plane geometry. GenEd I.C.

MATH 111 ALGEBRA FOR APPLICATIONS (3) Intended primarily for students in business, economics, psychology and the social sciences. Applications of finite mathematics: linear equations, matrices, linear programming using graphical methods and the simplex algorithms, sets and counting, elementary probability. Not open to those who successfully completed MATH 115 or MATH 119. Prerequisites: two years of algebra or DVMT 110, and one year plane geometry. GenEd I.C.

MATH 115 BASIC MATHEMATICS FOR THE SCIENCES (3) Intended primarily for students in biology, natural sciences, environmental studies, medical technology and nursing. Functions and equations: linear, quadratic, exponential, trigonometric. Applications of concepts and skills to the life and physical sciences are stressed. Not open to those who successfully completed MATH 119. Prerequisites: two years of algebra or DVMT 110, and one year plane geometry. GenEd I.C.

MATH 119 PRE-CALCULUS (4) The concept of function, exponential, logarithmic, circular and trigonometric functions, systems of linear equations, vectors in two space, lines, conic sections and polar coordinates. Prerequisites: two years algebra or DVMT 110, one year plane geometry, one-half year trigonometry. GenEd I.C.

MATH 204 MATHEMATICAL CONCEPTS AND STRUCTURES I (4) Problem solving, sets, systems of numeration, development of numeration system, through rational numbers, arithmetic operations and algorithms, number theory, and use of appropriate technology. (Required of all Early Childhood and Elementary Education majors.) Prerequisites: two years of high school algebra or DVMT 110 and one year of plane geometry.

MATH 205 MATHEMATICAL CONCEPTS AND STRUCTURES II (4) Real numbers, functions and graphs, statistical concepts and their applications, analysis and display of one variable and bivariate data, hypothesis testing, probability in single and multistage experiments, and use of appropriate technology. (Required of all Early Childhood and Elementary Education majors.) Prerequisite: MATH 204. GenEd I.C.

MATH 206 NUMBER SYSTEMS AND FUNCTIONS (4) Number theory including systems of numeration, functions, problem solving with technology, and basic concepts of calculus from an intuitive standpoint. Intended primarily for students interested in teaching mathematics in grades 4-8. Prerequisites: two years algebra or DVMT 110, one year plane geometry, one year trigonometry.

MATH 207 QUANTITATIVE AND GEOMETRIC REASONING (4) Advanced treatment and applications of concepts in geometry, measurement, trigonometry, probability and statistics. Appropriate use of current technology, such as LOGO, will be emphasized. Intended primarily for students interested in teaching mathematics in grades 4-8. Prerequisite: MATH 206. GenEd I.C.

MATH 211 CALCULUS FOR APPLICATIONS (3) Intended primarily for students in biology, business, economics, psychology, and the social sciences. Elements of differential and integral calculus from an intuitive standpoint with emphasis on the use of calculus in the above fields. Exponential and logarithmic functions, partial derivatives included. Not open to mathematics majors or minors. Prerequisite: MATH 111 or MATH 119. GenEd I.C.

MATH 231 BASIC STATISTICS (3) Frequency distributions and graphical methods, percentiles, measures of central tendency and variability, probability emphasizing binomial and normal distributions, sampling distributions, point and interval estimation, one and two sample hypothesis tests, simple linear regression. MINITAB or an equivalent computer package is introduced as a computational tool. Practical applications of statistics. Prerequisite: MATH 111 or MATH 115 or equivalent. GenEd I.C.

MATH 233 HONORS BASIC STATISTICS (3) Frequency distributions and graphical methods, percentiles, measures of central tendency and variability, probability, emphasizing binomial and normal distributions, sampling distributions, point and interval estimation, one- and two-sample hypothesis tests, simple linear regression. MINITAB or an equivalent computer package is introduced as a computational tool. Practical applications of statistics. Prerequisite: MATH 111 or MATH 115 or equivalent. GenEd I.C.

MATH 237 ELEMENTARY BIOSTATISTICS (4) Elementary statistical concepts and their application to the biological and health sciences. Descriptive statistics, estimation techniques, hypothesis testing, analysis of enumerative data, and one-way analysis of variance and simple linear regression and correlation analysis. A statistical package such as MINITAB is introduced as a computational tool. Not open to those who successfully completed MATH 231 or MATH 331 or to mathematics majors. Prerequisite: two years high school algebra or DVMT 110. GenEd I.C.

MATH 251 ELEMENTS OF GEOMETRY (4) Geometric vocabulary, relationships, concepts and skills in two and three dimensions using techniques of synthetic, coordinate and transformational geometries, measurement, and use of appropriate technology. Required of all Early Childhood and Elementary Education majors. Not open to mathematics majors. Prerequisite: MATH 205.

MATH 263 DISCRETE MATHEMATICS (3) Sets, logic, induction, functions, relations, sequences, recursion, combinatorics, graphs and trees, matrices with an emphasis on applications in computer science. Prerequisite: four years of high school mathematics or MATH 119. GenEd I.C.

MATH 265 ELEMENTARY LINEAR ALGEBRA (4) Matrix calculations and determinants, vector spaces over the real numbers, linear transformations, eigenvalues, eigenvectors, and inner products with emphasis on applications. Not open to those who successfully completed MATH 365 or MATH 463. Prerequisite: MATH 211 or MATH 273.

MATH 267 INTRODUCTION TO ABSTRACT MATHEMATICS (4) Sets, mappings, relations, logic, properties of the integers,

polynomials and groups. Not open to those who successfully completed MATH 361 or MATH 467. Prerequisite: MATH 273.

MATH 273 CALCULUS (4) Functions, limits and continuity, differentiation of algebraic and trigonometric functions; mean value theorem; differentials; introduction to integration; applications. Prerequisite: MATH 119 or calculus course in high school or adequate score on placement test. GenEd I.C.

MATH 274 CALCULUS II (4) Differentiation and integration of exponential logarithmic and inverse trigonometric functions; techniques of integration and applications; indeterminate forms; improper integrals; sequences and series of numbers; power series. Prerequisite: MATH 273. GenEd I.C.

MATH 275 CALCULUS III (4) Vectors in two and three dimensions, differential and integral calculus of functions of several variables. Four lecture hours and one laboratory hour per week. GenEd I.C. Prerequisite: MATH 274.

MATH 283 HONORS CALCULUS (4) Functions, limits and continuity; differentiation of algebraic and trigonometric functions; mean value theorem; differentials; introduction to integration; applications. Prerequisite: MATH 119 or calculus course in high school or adequate score on placement test. GenEd I.C.

MATH 293 HONORS SEMINAR IN MATHEMATICS (3) A problem solving seminar designed for students who have shown talent in mathematics but have not yet been exposed to advanced mathematics courses. Techniques of problem solving and the solution of challenging problems involving elementary mathematics, such as probability, number theory, graph theory and counting. Qualified students will usually take this course during their freshman or sophomore year. Honors College Course. Prerequisite: special permit only by Departmental Honors Committee. GenEd I.C.

Upper Division

MATH 301 [501] HISTORY OF MATHEMATICS (3) Development of mathematics emphasizing mathematical concepts and contributions and individuals and societies. Major credit only toward Secondary Education Concentration. Prerequisites: MATH 263 or MATH 267, and MATH 274.

MATH 305 CHANCE (3) Role of chance in a variety of contemporary scientific, social, and ethical issues. No credit toward a mathematics major. Prerequisites: One college level mathematics course and one college level science course; junior standing or by permission. GenEd II.A.2.

MATH 315 APPLIED COMBINATORICS (3) General counting methods, pigeon-hole principle, generating functions, partitions, recurrence relations, inclusion-exclusion principle, Polya's enumeration, introduction to graph theory. Prerequisite: MATH 263 or MATH 265 or MATH 267.

MATH 321 TEACHING MATHEMATICS IN EARLY CHILDHOOD EDUCATION (3) Materials of instruction and methods of presentation with emphasis on the discovery approach. No credit toward a Mathematics major or minor. Prerequisites: MATH 204 (or MATH 206) and MATH 205 (or MATH 207).

MATH 323 TEACHING MATHEMATICS IN ELEMENTARY SCHOOL (3) Nature of instruction, organization of units of instruction, provisions for developing understandings, new programs and research findings, and techniques and evaluation. Required of all elementary education majors. No credit toward a Mathematics major or minor. Prerequisites: MATH 204 (or MATH 206), MATH 205 (or MATH 207), and MATH 251.

MATH 324 SUPERVISED OBSERVATION/PARTICIPATION IN ELEMENTARY SCHOOL MATHEMATICS (2) Application of methodology for developing and conducting classroom activities in mathematical concepts and skills at local elementary schools. Corequisite: MATH 323.

MATH 326 THE MATHEMATICS OF INFORMATION SCIENCE (3) Encoding information introducing metrics, isometries, equivalence relations, modular arithmetic, base 2 arithmetic, matrix algebra, probability and combinatorics, including binary codes, bar codes, check digits, internal computer representations of information, and logic gates. Students cannot earn credit for both COSC 326 and MATH 326. No credit toward a Computer Science major or minor.

MATH 330 INTRODUCTION TO STATISTICAL METHODS (4) An introductory course for students with mathematics and computing backgrounds emphasizing statistical ideas and techniques. Descriptive statistics, probability, estimation and sampling, hypothesis testing, regression and correlation, and analysis of variance. A statistical package such as MINITAB is introduced as a

computational tool. Prerequisite: MATH 274 (or concurrently) and COSC 236.

MATH 331 [531] PROBABILITY (4) Probability in sample spaces, discrete and continuous random variables, distribution theory, Chebyshev's Theorem, Central Limit Theorem, expected values and moments. Prerequisite: MATH 274.

MATH 332 [532] MATHEMATICAL STATISTICS (4) Sample theory and distributions, point estimation, confidence intervals, tests of hypothesis, regression, correlation and analysis of variance. (Offered only in the spring semester.) Prerequisite: MATH 331.

MATH 333 [533] APPLIED REGRESSION AND CORRELATION ANALYSIS (3) Relationships among variables emphasizing linear regression with one or more independent variables, methods of estimating parameters and testing hypotheses, selection of independent variables and other topics. Prerequisite: one course in elementary statistics.

MATH 334 [534] NONPARAMETRIC STATISTICAL METHODS (3) Applied study of popular nonparametric tests, procedures utilizing data from a single sample and two or more independent and related samples, Chi-square tests of independence, homogeneity and goodness-of-fit; rank correlation and other measures of association. Prerequisite: one course in elementary statistics.

MATH 335 [545] SAMPLING TECHNIQUES (3) Simple random, stratified, systematic cluster and double sampling. Sampling for proportions, averages and totals, and sample size determination. Prerequisite: one course in elementary statistics.

MATH 336 [546] STATISTICAL METHODS IN QUALITY CONTROL (3) Statistical process control including principles of control charts, control charts for attributes and variables, and special control charts. Methods for quality improvement. Acceptance sampling including single, double, multiple and sequential attribute sampling, and acceptance sampling by variable. Prerequisite: one course in elementary statistics.

MATH 353 EUCLIDEAN AND NON-EUCLIDEAN GEOMETRIES (3) Review of synthetic Euclidean geometry, non-Euclidean geometries, finite geometries and systems of axioms, classical theorems, and elementary transformations. (Offered only in spring semester.) Prerequisite: MATH 263 or MATH 267, and MATH 273.

MATH 367 [567] THEORY OF NUMBERS (3) Theory of prime numbers, the division algorithm, the Fundamental Theorem of Arithmetic, polynomials, congruences, and number theoretic functions. (Offered only in the fall semester.) Prerequisite: MATH 263 or MATH 267.

MATH 374 [574] DIFFERENTIAL EQUATIONS (3) Theory and application of linear ordinary differential equations. Solutions of non-linear ordinary differential equations of the first order. Prerequisite: MATH 274.

MATH 377 [575] MATHEMATICAL MODELS (3) Developing appropriate mathematical models and techniques to solve mathematical problems in sociology, psychology, economics, management science, and ecology. Prerequisites: MATH 265, MATH 274, COSC 236 and at least junior standing.

MATH 379 [579] ADVANCED CALCULUS (3) Vector, integral, and differential calculus including the divergence and Stoke's theorems. Fourier series, orthogonal functions and applications. Prerequisite: MATH 275.

MATH 390 INTRODUCTION TO ACTUARIAL MATHEMATICS (3) Problem-oriented review of discrete mathematics, calculus of one and several variables, linear algebra, and introductory complex functions with discussions of ongoing professional actuarial projects. Prerequisites: MATH 265 and MATH 275.

MATH 397 INTERNSHIP IN MATHEMATICS (3) Students will be assigned to work on a mathematics project for a local business or industry under the direction of the industry supervisor and a member of the mathematics faculty. May be repeated for a maximum of 6 credits. No credit toward a Mathematics major or minor. Prerequisites: junior standing and 6 hours of upper-division mathematics courses.

MATH 421 [521] APPLICATIONS OF MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (3) Examines a series of applications of mathematics that may be used to enrich the secondary mathematics curriculum. No credit toward a mathematics major. Prerequisite: teaching experience in mathematics or science or consent of instructor.

MATH 422 SEMINAR IN MATHEMATICS EDUCATION FOR ELEMENTARY SCHOOL TEACHERS (3) Analysis of topics, techniques, programs, and materials used in the teaching and

- learning of mathematics in the elementary schools. Credit may be applied to the Elementary Education Mathematics minor program but not to other Mathematics major/minor programs. Prerequisite: MATH 321 or MATH 323.
- MATH 423 TEACHING MATHEMATICS IN THE SECONDARY SCHOOLS (3)** Examination of courses of study and textbooks, study of methods of teaching. Open only to students in the student teaching block. This course will be offered only in the spring semester to be followed by MATH 426 during the fall. Prerequisites: MATH 267 and MATH 353, or consent of instructor.
- MATH 425 [525] METHODS AND MATERIALS FOR MATH LAB INSTRUCTION (1-3)** Examination of and experiences with commercial and teacher-made materials designed for a laboratory (activity-centered) approach to learning mathematics. Prerequisite: a methods course in teaching mathematics (MATH 321, MATH 323, MATH 423) or previous teaching experience.
- MATH 426 STUDENT TEACHING IN SECONDARY EDUCATION-MATHEMATICS (12)** Field experience in public school classrooms under the guidance of master teachers and a university supervisor. Prerequisites: PSYC 201, SCED 319 or SCED 341, SCED 460, SPED 301, MATH 423, and written permission from the Center for Applied Skills in Education.
- MATH 427 [527] READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3)** Directed study for the teacher of elementary school mathematics. No credit toward a Mathematics major. Prerequisites: MATH 321 or MATH 323 and approval of instructor.
- MATH 428 SENIOR SEMINAR MATHEMATICS EDUCATION (2)** Integration of mathematical knowledge and pedagogical issues in secondary schools. Prerequisites: senior standing and MATH 423, which may be taken concurrently.
- MATH 429 [529] READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (1-3)** Directed study for the teacher of secondary school mathematics. No credit toward a Mathematics major. Prerequisite: consent of instructor.
- MATH 433 [543] APPLIED ANALYSIS OF VARIANCE (3)** Single and multifactor models, inference for factor level means, multiple comparison methods for factor level means, test of additivity, tests of homogeneity, regression approach to analysis of variance. Prerequisite: MATH 333.
- MATH 435 [535] NUMERICAL ANALYSIS I (4)** Error analysis, interpolation, numerical differentiation and integration, numerical solution of algebraic equations and of systems of algebraic equations. Prerequisites: MATH 265, MATH 274, and COSC 236.
- MATH 436 [536] NUMERICAL ANALYSIS II (4)** Numerical solution of differential equations. Least squares and its applications, linear programming and extension of the concepts of MATH 435. (Offered only in the spring semester.) Prerequisite: MATH 435.
- MATH 437 [537] OPERATIONS RESEARCH (4)** Introduction to linear and integer programming, the simplex method and duality theory; dynamical formulation of deterministic decision process problems; applications to problems of equipment replacement, resource allocation and scheduling, Poisson processes, and birth and death processes. Prerequisites: MATH 265 and MATH 331.
- MATH 438 [538] LIFE CONTINGENCIES I (3)** Theory and applications of contingency mathematics in the areas of life and health insurance, annuities and pensions from both the probabilistic and deterministic approaches. Prerequisite: MATH 331.
- MATH 451 [551] GRAPH THEORY (3)** Hamiltonian and Eulerian graphs, coloring graphs, planar and non-planar graphs, connectivity problems; isomorphic graphs, and advanced topics. Prerequisite: MATH 263 or MATH 267.
- MATH 457 [557] DIFFERENTIAL GEOMETRY (3)** Curvatures of curves and surfaces in three dimensional Euclidean space, geodesics, invariants, mappings, and special surfaces. Prerequisite: MATH 275.
- MATH 463 [563] LINEAR ALGEBRA (3)** Vector spaces over arbitrary fields, linear transformations, eigenvalues, eigenvectors, inner products, bilinear forms, direct sum decompositions and the Jordan form. Not open to those who successfully completed MATH 365. Prerequisites: MATH 265 and MATH 267.
- MATH 467 [568] ALGEBRAIC STRUCTURES (4)** Groups, rings, fields, integral domains, and polynomial rings. Not open to those who successfully completed MATH 361. Prerequisites: MATH 265 and MATH 267.
- MATH 473 [576] INTRODUCTORY REAL ANALYSIS (4)** An introduction to mathematical analysis. Sequences, series, continuity, differentiation, integration and uniform convergence. Prerequisites: MATH 267 and MATH 275.
- MATH 475 [577] COMPLEX ANALYSIS (4)** Complex number system, analytic functions, Cauchy's integral theorem and integral formula, Taylor and Laurent series, isolated singularities, Cauchy's residue theorem and conformal mappings. Prerequisite: MATH 275.
- MATH 477 [578] TOPOLOGY (3)** Basic concepts of point set topology, separation axioms, compact and connected spaces, product and quotient spaces, convergence, continuity and homeomorphisms. Prerequisites: MATH 267 and MATH 275.
- MATH 480-489 [580-589] SELECTED TOPICS IN MATHEMATICS AND STATISTICS (1-4)** Topics will be chosen from different areas in mathematics and statistics. Content will be determined so as to complement course offerings as well as the needs and desires of students. MATH 480 through MATH 483 may not be counted toward a mathematics major. May be repeated for a maximum of 9 credits provided a different topic is covered. Prerequisites will vary from topic to topic.
- MATH 485 MATHEMATICAL FINANCE (3)** Mathematical theory, computation and practical application of derivatives in managing financial risk. Fundamental derivative calculations for single period models such as forwards, futures and options. Binomial trees will be explored along with an introduction to the Black-Scholes continuous time model. Not open to students who have successfully completed MATH 429. Computer laboratory activities throughout. Prerequisites: MATH 331, FIN 331.
- MATH 490 SENIOR SEMINAR IN MATHEMATICS (2)** Selected mathematical topics and their applications. Prerequisite: senior standing.
- MATH 491 [591] READINGS IN MATHEMATICS (1-3)** Independent reading in selected areas of mathematics. May be repeated for a maximum of 6 credits. Prerequisites: consent of instructor and senior status.
- MATH 493 DIRECTED READINGS IN MATHEMATICS (HONORS) (3)** Individual reading and background research under direction of a faculty member in preparation for writing an honors thesis. Prerequisite: admission to department honors program.
- MATH 495-496 APPLIED MATHEMATICS LABORATORY I, II (3,3)** Investigation by a team of students under faculty direction of a problem of mathematical and/or computational nature, chosen from proposals submitted by clients in the university or local industry. Team involvement may include literature searches, model definition, collection and analysis of data and model verification. Restricted to invited students. Prerequisites: 9 hours of mathematics and/or computer science, at least junior standing, and consent of instructor.
- MATH 499 HONORS THESIS IN MATHEMATICS (3-6)** Writing of an honors thesis based on individual research. May be repeated for a maximum of 6 credits. Open only to advanced honors candidates. Prerequisite: permission of department Honors Committee.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

MUSIC APPLIED (MUSA)

Lower Division (200 and 200 level) and Upper Division (300 and 400 level)

Private Lessons (1-2)

Instruction in instrument technique and performance: individual lesson (1/2 hour for 1 credit, 1 hour for 2 credits) and one hour group master class.

The Department of Music *Applied Music Handbook* lists criteria for auditions and performance standards for each level. Successful completion of a jury examination is required at the end of each semester. An upper-division jury is required before registering at the 300 level. May be repeated for credit. Prerequisites: audition and by special permit only. Fees: extra fees apply. Contact the department for fee policy, 410-830-2836.

Composition

MUSA 100, 200, 300, 400

Voice

MUSA 103, 203, 303, 403

Keyboard

Piano	MUSA 105, 205, 305, 405
Organ	MUSA 106, 206, 306, 406
Harpsichord	MUSA 107, 207, 307, 407

Percussion

Snare Drum	MUSA 110, 210, 310, 410
Mallets	MUSA 111, 211, 311, 411
Timpani	MUSA 112, 212, 312, 412
Multiple Percussion	MUSA 113, 213, 313, 413

Brass

Trumpet	MUSA 120, 220, 320, 420
Trombone	MUSA 121, 221, 321, 421
French Horn	MUSA 122, 222, 322, 422
Tuba	MUSA 123, 223, 323, 423

Woodwinds

Flute	MUSA 125, 225, 325, 425
Clarinet	MUSA 126, 226, 326, 426
Oboe	MUSA 127, 227, 327, 427
Bassoon	MUSA 128, 228, 328, 428
Saxophone	MUSA 129, 229, 329, 429

Strings

Violin	MUSA 130, 230, 330, 430
Viola	MUSA 131, 231, 331, 431
Cello	MUSA 132, 232, 332, 432
String Bass	MUSA 133, 233, 333, 433
Harp	MUSA 134, 234, 334, 434

Guitar

Classical Guitar	MUSA 135, 235, 335, 435
Other fretted instruments	MUSA 136, 236, 336, 436

Jazz/Commercial

Jazz/Commercial Guitar	MUSA 140, 240, 340, 440
Jazz/Commercial String Bass	MUSA 141, 241, 341, 441
Jazz/Commercial Piano	MUSA 142, 242, 342, 442
Jazz/Commercial Drums	MUSA 143, 243, 343, 443
Jazz/Commercial Trumpet	MUSA 144, 244, 344, 444
Jazz/Commercial Saxophone	MUSA 145, 245, 345, 445
Jazz/Commercial Trombone	MUSA 146, 246, 346, 446
Jazz/Commercial Electric Bass	MUSA 147, 247, 347, 447
Jazz/Commercial Voice	MUSA 148, 248, 348, 448

Ensembles (1)

The study and performance of literature for the designated ensemble. Open to all students by audition or permission of the instructor. May be repeated for credit depending on concentration. (UG)

Vocal Ensembles

MUSA 150, 350	Choral Society (no audition required) (formerly MUSC 255, 355)
MUSA 251, 451	Chorale (formerly MUSC 263, 363)
MUSA 252, 452	Chamber Singers (formerly MUSC 161, 361)
MUSA 253, 453	Music for the Stage (formerly MUSC 209, 309)
MUSA 254, 454	Music Theater Chorus (formerly MUSC 144, 344)
MUSA 268, 468	Early Music Ensemble (formerly MUSC 159, 359)
MUSA 284, 484	Jazz Vocal Ensemble (formerly MUSC 262, 362)

Large Instrumental Ensembles

MUSA 160, 360	Marching Band (no audition required) (formerly MUSC 115, 315)
MUSA 261, 461	Symphonic Band (formerly MUSC 269, 369)
MUSA 262, 462	Orchestra (formerly MUSC 267, 367)
MUSA 263, 463	Opera Orchestra (formerly MUSC 203)
MUSA 264, 464	Music Theater Orchestra (formerly MUSC 141, 341)
MUSA 265, 465	Wind Ensemble (formerly MUSC 137, 337)

Small Instrumental Ensembles

MUSA 176	Conducting Lab Band (0.5 credit) (Graded S/U) (formerly MUSC 229)
MUSA 266, 466	Woodwind Ensemble (formerly MUSC 153, 353)
MUSA 267, 467	Chamber Music Ensemble (formerly MUSC 149, 349)
MUSA 268, 468	Early Music Ensemble (formerly MUSC 159, 359)
MUSA 269, 469	Brass Ensemble (formerly MUSC 141, 341)
MUSA 270, 470	Pep Band (formerly MUSC 257)
MUSA 271, 471	Clarinet Choir (formerly MUSC 113, 313)
MUSA 272, 472	Percussion Ensemble (formerly MUSC 145, 345)
MUSA 273, 473	Saxophone Ensemble (formerly MUSC 147, 347)

MUSA 274, 474	Solo and Ensemble Accompanying (formerly MUSC 251) Prerequisites: one semester of applied piano and consent of instructor.
MUSA 275, 475	Guitar Ensemble (formerly MUSC 139, 339)

Jazz Ensembles

MUSA 281, 481	Jazz Ensemble — Big Band (formerly MUSC 157, 357)
MUSA 282, 482	Jazz Ensemble — Combo (formerly MUSC 157, 357)
MUSA 283, 483	Jazz Ensemble — Guitar (formerly MUSC 157, 357)
MUSA 284, 484	Jazz Ensemble — Vocal (formerly MUSC 262, 362)

GROUP LESSONS (1)

	Class instruction on the designated instrument
MUSA 190	Piano Class I (formerly MUSC 217)
MUSA 191	Piano Class II (formerly MUSC 218)
MUSA 192	Guitar Class I (formerly MUSC 225)
MUSA 193	Guitar Class II (formerly MUSC 226)

RECITALS (1)

MUSA 399	Junior Recital for Bachelor of Music Degree (formerly MUSC 399) Preparation and performance of the junior recital. Prerequisites: successful completion of upper-division jury and consent of instructor. Must be concurrently enrolled in 300-level applied lessons.
MUSA 497	Senior Recital for Bachelor of Science in Music Degree Preparation and performance of the senior recital. Prerequisites: successful completion of upper-level applied lesson requirements and consent of instructor. Must be concurrently enrolled in upper-level applied lessons.
MUSA 498	Senior Recital for Music Education Majors (formerly MUSC 498) Preparation and performance of the senior recital. Prerequisites: successful completion of 300-level applied lesson requirements for the B.S. in Music Education and permission of instructor. Must be concurrently enrolled in 400-level applied lessons.
MUSA 499	Senior Recital for Bachelor of Music Degree (formerly MUSC 499) Preparation and performance of the senior recital. Prerequisites: successful completion of 300-level applied lesson requirements and permission of instructor. Must be concurrently enrolled in 400-level applied lessons.

MUSIC (MUSC)**Lower Division**

- MUSC 100 INFORMATION GATHERING AND ASSESSMENT IN MUSIC** (3) Traditional and electronic information, sources, methods, and technology to retrieve, critically assess, and integrate information. GenEd I.B.
- MUSC 101 INTRODUCTION TO MUSIC OF THE WESTERN HERITAGE** (3) Masterworks of European and American art music from the perspective of contemporary society through lecture, listening, and discussion. Open to non-music majors; does not satisfy major or minor requirement. GenEd II.C.1.
- MUSC 102 INTRODUCTION TO MUSIC OF THE WESTERN HERITAGE: ANALYTIC EMPHASIS** (3) Masterworks of European and American art music from the perspective of contemporary society. Prerequisite: Ability to read music essential. GenEd II.C.1.
- MUSC 104 MUSIC OF THE 19th CENTURY** (3) Consideration of concert music composed between 1810-1900; the romantic piano piece, solo song, symphony, concerto, chamber music; emphasis is on acquiring listening skills for recognition of compositional techniques peculiar to composers and genres of the period. Intended for non-majors.
- MUSC 105 ELEMENTS OF WESTERN MUSIC THEORY** (3) Theoretical concepts through practical experiences with notation, meter, scales, intervals, and chord structures. Open to non-majors and music minors. GenEd II.C.1.

MUSC 106 HONORS INTRODUCTION TO MUSIC OF THE WESTERN HERITAGE (3) Masterworks of European and American art music from the perspective of contemporary society. Open to non-music majors; does not satisfy major requirement. Honors College course, special permit only. GenEd II.C.1.

MUSC 109 INTRODUCTION TO WORLD MUSICS (3) Musical traditions of the world, including understanding of musical languages and development of listening skills for appreciation of diverse musical cultures. GenEd II.D.

MUSC 111 INTRODUCTION TO AMERICAN MUSIC (3) Genres and styles of American music from pre-colonial times to present: religious, folk, popular, musical theatre, jazz, and classical. GenEd II.B.1.

MUSC 123 HISTORY OF JAZZ (3) Stylistic survey of major currents in the history of jazz. Explores importance of this musical tradition in American culture. GenEd II.B.1.

MUSC 125 HONORS HISTORY OF JAZZ (3) An examination of major currents in the history of jazz. Explores the importance of this musical tradition in American culture through discussion, analysis, listening, and independent study. Honors College Course. Special permit only. GenEd II.B.1.

MUSC 127 ELEMENTS AND HISTORY OF ROCK MUSIC (3) Contributions to rock music through basic musical elements. GenEd II.B.1.

MUSC 131-132 MUSIC THEORY I AND II (2,2) The study of harmony up to secondary dominants and modulation. Elements of counterpoint and form. Special permit required. Prerequisite for Theory II: MUSC 131.

MUSC 133-134 MUSICIANSHIP I AND II (2,2) Development of aural skills through sight singing, dictation, improvisation and keyboard applications. Correlated with Music Theory I and II. Normally taken concurrently with MUSC 131-132. Special permit required. Prerequisite for Musicianship II: MUSC 133.

MUSC 135 COMPUTER APPLICATIONS IN MUSIC (3) Introduction to the concepts, terms and skills needed for creative use of computer applications in music. The Musical Instrument Digital Interface (MIDI) protocol will be explored with a focus on the design and creative use of computer music systems. Prerequisite: MUSC 131.

MUSC 205 WOMEN IN WESTERN MUSIC (3) Roles and contributions of women composers and performers from ancient Greece to contemporary American society. GenEd II.C.3.

MUSC 231-232 MUSIC THEORY III AND IV (2,2) The study of chromatic harmony and various modern practices including modality, extended tonality and serial techniques. Elementary counterpoint. Binary and ternary forms. Variation principle. Prerequisite for Theory III: MUSC 132. Prerequisite for Theory IV: MUSC 231.

MUSC 233-234 MUSICIANSHIP III & IV (2,2) Development of aural skills through sight singing, dictation, improvisation and keyboard applications. Correlated with Music Theory III & IV. Normally taken concurrently with MUSC 231-232. Prerequisite for Musicianship III: MUSC 134. Prerequisite for Musicianship IV: MUSC 233.

MUSC 235 KEYBOARD HARMONY (1) Keyboard application of theoretical techniques with emphasis on chordal harmonization, and transposition of melodies. Prerequisite: MUSC 218 or equivalent.

MUSC 241 VOICE/MOVEMENT INTEGRATION FOR THE SINGER (3) Theories and methods of Laban Movement Studies to promote efficient voice production and characterization.

MUSC 245 DICTION FOR SINGERS I (ENGLISH AND ITALIAN) (2) Using the International Phonetic alphabet as a basis for pronunciation, this course introduces singers to the fundamentals of English and Italian diction. Prerequisite: voice major or consent of instructor.

MUSC 246 DICTION FOR SINGERS II (FRENCH AND GERMAN) (2) Using the International Phonetic alphabet as a basis for pronunciation, this course introduces singers to the fundamentals of French and German diction. Prerequisites: voice concentration and MUSC 245 or consent of instructor.

MUSC 281 RECORDING TECHNIQUES I (3) A course in recording techniques involving the history, concepts and mechanics of the recording process. Designed to train students for the recording of live concerts, this course acquaints students with acoustical principles, recording hardware, and recording procedures. Includes laboratory

work assisting in the recording studio during concerts. Prerequisites: MUSC 101, MUSC 102 or MUSC 106, and consent of instructor.

MUSC 282 RECORDING TECHNIQUES II (3) Emphasizes signal processing equipment and how it relates to live recording from the concert stage. Includes experience recording live concerts in the Center for the Arts Concert Hall. Prerequisites: MUSC 281 and consent of instructor.

Upper Division

MUSC 301 HISTORY OF MUSIC I (3) Survey of the development of music in the western world from the period of ancient Greece to the end of the baroque period. Emphasis is placed on stylistic analysis of the music. Prerequisites: MUSC 102; MUSC 231.

MUSC 302 HISTORY OF MUSIC II (3) Survey of the development of music in the western world from the classical era to the present. Emphasis is placed on stylistic analysis of music. Prerequisites: MUSC 102, MUSC 231, ENGL 102 or 190. GenEd I.D.

MUSC 305 INTRODUCTION TO THE MUSIC INDUSTRY (3) Publishing, copyright law, licensing, managers and agents, arts administration, concert promotion, music merchandising, recording and selling.

MUSC 311 ACCOMPANYING AND SIGHT READING I (3) Study of vocal and instrumental accompanying with emphasis on sight reading, transposition and acquaintance with literature. Prerequisite: consent of instructor.

MUSC 312 ACCOMPANYING AND SIGHT READING II (3) Advanced study of vocal and instrumental accompanying with emphasis upon sight reading, transposition, and acquaintance with vocal and instrumental literature. Prerequisite: MUSC 311.

MUSC 327 CHORAL CONDUCTING (3) Group instruction in basic conducting techniques and interpretation with relation to choral organizations. Prerequisite: MUSC 132 or consent of instructor.

MUSC 329 INSTRUMENTAL CONDUCTING (3) Group instruction in basic conducting techniques and interpretation with relation to instrumental organizations. Prerequisite: MUSC 132 or consent of instructor.

MUSC 335 CHORAL AND INSTRUMENTAL ARRANGING (3) Composition and arranging techniques for voices and/or instruments. Prerequisite: MUSC 232 or consent of instructor.

MUSC 402 [502] MUSIC OF THE BAROQUE PERIOD (3) Study of the development of musical styles, forms, and compositional techniques from 1600 to about 1750. Prerequisite: MUSC 232 or consent of instructor.

MUSC 403 [503] MUSIC OF THE CLASSICAL PERIOD (3) Styles, forms, and techniques from 1750-1820. Particular emphasis is placed on such instrumental categories as the string quartet, sonata, symphony and concerto as illustrated in the works of Haydn, Mozart and Beethoven. Attention is given to operatic and sacred compositions masters. Prerequisite: MUSC 232 or consent of instructor.

MUSC 404 [504] MUSIC OF THE ROMANTIC PERIOD (3) Musical styles, forms, and techniques of the 19th century with special attention to the intellectual foundations of the Romantic movement. Prerequisite: MUSC 232 or consent of instructor.

MUSC 405 [505] CONTEMPORARY MUSIC (3) Styles, forms, and musical techniques since 1900. Prerequisite: MUSC 302 or consent of instructor.

MUSC 406 [506] SURVEY OF SOLO VOICE LITERATURE (3) A musical survey of the art-song from circa 1750 to the present. Prerequisite: MUSC 232 or consent of instructor.

MUSC 409 [509] HISTORY AND LITERATURE OF GUITAR, LUTE, AND VIHUELA (3) A survey of the history of and literature written for or readily adaptable to the guitar. Includes study of tablatures and transcriptions to modern notation. Prerequisite: MUSC 232 or consent of instructor.

MUSC 411 [511] SURVEY OF OPERA (3) Study of opera literature of various periods and styles. Prerequisite: junior/senior standing or consent of instructor.

MUSC 413 [513] SYMPHONIC LITERATURE (3) Survey of orchestral music from the Classical Period to the present. Includes symphony, overture, and symphonic poem. Prerequisite: MUSC 232 or consent of instructor.

MUSC 414 [514] COUNTERPOINT (3) Principles of species counterpoint, using examples from all style periods and writing of counterpoint in all five species. Prerequisite: completion of music theory sequence or consent of instructor.

- MUSC 415 [515] THE CONCERTO (3)** A survey of the concerto from its inception to the present. Analysis of stylistic, formal, and compositional aspects will be included. Prerequisite: MUSC 232 or consent of instructor.
- MUSC 419 [519] KEYBOARD LITERATURE (3)** Literature for keyboard instruments from 1450 to present. Prerequisite: junior/senior standing or consent of instructor.
- MUSC 420 JAZZ THEORY (3)** Study and practice of rhythmic, harmonic and melodic dictation in jazz styles; the use of extended chords and modal harmony in the jazz idiom. Prerequisite: MUSC 232 or consent of instructor.
- MUSC 421 [521] AMERICAN MUSIC (3)** American music from the Colonial Period to the present. Prerequisite: junior/senior standing or consent of instructor.
- MUSC 425 JAZZ REPERTOIRE (3)** Study and performance of standard jazz literature for small, varied instrumental groups or vocalists. Prerequisite: MUSC 232 or consent of instructor.
- MUSC 426 JAZZ HISTORY (3)** Survey of jazz from its origins to the present day. Prerequisite: MUSC 232.
- MUSC 427-428 [527-528] JAZZ ARRANGING I, II (3,3)** Study and practice of arranging of standard material for Jazz Ensembles. Prerequisite: MUSC 232 or consent of instructor.
- MUSC 429-430 [529-530] JAZZ IMPROVISATION I, II (3,3)** Study and practice of improvising in various jazz styles. Prerequisite: MUSC 231-232 or consent of instructor.
- MUSC 431 [531] ADVANCED CHORAL AND INSTRUMENTAL ARRANGING (3)** Advanced arranging techniques including the scoring of works for various combinations of instruments and/or voices. Prerequisite: MUSC 335 or consent of instructor.
- MUSC 435 [535] FORM AND ANALYSIS (3)** Analysis of vocal and instrumental literature. Prerequisite: MUSC 232.
- MUSC 437 ADVANCED COMPUTER APPLICATIONS (3)** Creative use of computer applications: sequencing, notation, synthesis applications, digital audio recording, editing, synchronization with film/music. Prerequisite: MUSC 135.
- MUSC 442 VOCAL PEDAGOGY (2)** Theory and practice of the teaching of singing by national styles, historical approaches and the physiology of the voice. Prerequisites: MUSA 281 or consent of instructor, MUSC 245 and MUSC 246.
- MUSC 453 ORGAN PEDAGOGY (3)** Historical approach to methods of teaching the organ. Prerequisite: MUSA 373 or consent of instructor.
- MUSC 460 PIANO PEDAGOGY (3)** Teaches the goals and steps in the art of teaching beginner, elementary and intermediate piano.
- MUSC 462 GUITAR PEDAGOGY (3)** Art and science of teaching guitar, historical and current practices; observations. Private studio organization and administration. Prerequisites: 200-level guitar private lessons or consent of instructor.
- MUSC 471-479 [571-579] SPECIAL TOPICS IN MUSIC (3)** Consideration of a central topic in music with a different topic each semester. May be repeated for credit provided a different topic is covered. Prerequisites: MUSC 232 or consent of instructor.
- MUSC 493 [593] INDEPENDENT RESEARCH IN MUSIC (1-3)** Supervised research in a selected topic in music culminating in an extended paper. May be repeated for credit provided a different topic is covered. Prerequisites: MUSC 302 or consent of instructor.
- MUSC 497 INTERNSHIP IN MUSIC (1-6)** Field experience with working professionals. Prerequisite: consent of Music internship coordinator. S/U grading.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

MUSIC EDUCATION (MUED) METHODS CLASSES

Class instruction for music education majors on the designated instrument or voice. All classes are 1 credit unless otherwise designated.

- MUED 201 BRASS CLASS I (formerly MUSC 211)**
MUED 202 BRASS CLASS II (formerly MUSC 212)
MUED 203 LOWER STRING CLASS (formerly MUSC 219)
MUED 204 UPPER STRING CLASS (formerly MUSC 220)
MUED 205 WOODWIND CLASS I (formerly MUSC 223)
MUED 206 WOODWIND CLASS II (formerly MUSC 224)
MUED 207 PERCUSSION CLASS I (formerly MUSC 215)
MUED 208 PERCUSSION CLASS II (formerly MUSC 216)

- MUED 209 TEACHING GUITAR IN THE CLASSROOM (formerly MUED 241) (2)**
MUED 210 VOICE CLASS (formerly MUSC 221-222)

Lower Division

- MUED 101 FUNDAMENTALS OF MUSIC FOR KINDERGARTEN AND ELEMENTARY TEACHERS (3)** (formerly MUSC 107 Music Fundamentals) The study of basic music skills and concepts for prospective kindergarten and elementary teachers.
- MUED 220 PERCUSSION WORKSHOP (2)** (formerly MUSC 236) Performance and teaching concepts on all percussion instruments; class type lessons on auxiliary percussion; learning to maintain and repair mallets and instruments; learning to "custom make" beaters, holders, etc.; learning to write for percussion; rehearsing and conducting percussion solo and ensemble literature. Prerequisite: open only to students in Percussion Concentration.

Upper Division

- MUED 301 MARCHING BAND TECHNIQUES (0.5)** (formerly MUSC 307) Organization and administration of marching bands; show design, music programming, field preparation and rehearsal techniques.
- MUED 304 METHODS OF TEACHING MUSIC IN EARLY CHILDHOOD EDUCATION (2)** Methods and materials in music education for children ages three through eight in a laboratory setting. Early Childhood Education majors only. Concurrent Pre-Primary curriculum ECED 341. Not open to those who successfully completed MUED 307. Prerequisite: MUSC 101.
- MUED 305 METHODS OF TEACHING MUSIC IN ELEMENTARY EDUCATION (2)** Methods and materials for teaching music in elementary school presented in a laboratory setting. Elementary education majors only. Not open to those who successfully completed MUED 307. Prerequisite: MUSC 107.
- MUED 306 METHODS OF TEACHING INSTRUMENTAL MUSIC IN ELEMENTARY SCHOOLS (4)** Role of instrumental music in elementary school: Normally taken fall semester prior to student teaching. Prerequisites: music major, junior standing; successful completion of Piano Proficiency Test.
- MUED 307 METHODS OF TEACHING VOCAL-GENERAL MUSIC IN THE ELEMENTARY SCHOOL (4)** Vocal-general programs in elementary schools: Orff, Kodaly, and Dalcroze techniques and principles with children in a laboratory setting. Normally taken in semester prior to student teaching. Prerequisites: Music major, junior standing; successful completion of Piano Proficiency Test.
- MUED 308 METHODS OF TEACHING INSTRUMENTAL MUSIC IN SECONDARY SCHOOLS (2)** Methods and materials for the instruction of instrumental music. Concurrent with student teaching. Prerequisite: MUED 306.
- MUED 309 METHODS OF TEACHING VOCAL-GENERAL MUSIC IN SECONDARY SCHOOLS (2)** Methods and materials for instruction of vocal-general music. Concurrent with student teaching. Prerequisites: MUED 307; MUED 337.
- MUED 310 INTRODUCTION TO MUSIC IN SPECIAL EDUCATION (3)** Curriculum materials and activities addressing the needs of disabled students; development and adaptation of lesson plans and individual education programs are emphasized. Music Education majors only. Prerequisites: normal admission to Teacher Education Program and PSYC 201.
- MUED 337 TEACHING CHORAL MUSIC IN THE ELEMENTARY AND THE SECONDARY SCHOOL (2)** Examination of materials, methods, and procedures in organizing school choral groups and in teaching choral music to elementary and secondary students. Prerequisite: MUSC 327.
- MUED 391 STUDENT TEACHING IN ELEMENTARY SCHOOL — MUSIC (6)** Prerequisites: MUED 306 and 310, MUSC 307 (Instrumental); MUED 241, 307, 310, 337 (Vocal-General); Piano Proficiency Test; successful completion of Praxis I Academic Skills Assessments, Speech and Hearing Screening, and criminal background check. Graded S/U.
- MUED 392 STUDENT TEACHING IN SECONDARY SCHOOL — MUSIC (6)** Prerequisites: MUED 306 and 310, MUSC 307 (Instrumental); MUED 241, 307, 310, 337 (Vocal-General); Piano Proficiency Test; successful completion of Praxis I Academic Skills Assessments, Speech and Hearing Screening, and criminal background check. Graded S/U.

NURSING (NURS)

NURS 330 PROFESSIONAL NURSING: BRIDGE (3) Conceptual framework of Department of Nursing, including health, health promotion and maintenance for clients throughout the life span. Prerequisite: admission to Nursing Major, RN in the State of Maryland.

NURS 331 PROFESSIONAL NURSING I: INTRODUCTION (2) Introduces students to the professional role of nursing. Encompasses conceptual framework of the Department of Nursing. Prerequisite: admission to the Nursing major.

NURS 341 ALTERATIONS IN HEALTH (3) Pathophysiologic processes of human illness across the lifespan. Adaptive and maladaptive responses to stress are examined. Prerequisites: admission to the Nursing major; NURS 331 (can be taken concurrently).

NURS 343 PHARMACOTHERAPEUTIC AGENTS (2) Pharmacologic agents commonly used in treatment of disease states and the nursing responsibilities involved. Prerequisites: admission to the Nursing major; NURS 331 and NURS 341 (can be taken concurrently).

NURS 345 TECHNOLOGY AND THERAPEUTIC INTERVENTIONS (2) Technological, psychomotor and psychosocial skills used by the nurse in the provider of care role. Prerequisites: admission to the Nursing major; NURS 331, NURS 341, NURS 343, NURS 347 (can be taken concurrently).

NURS 347 HEALTH ASSESSMENT ACROSS THE LIFE SPAN (3) Acquisition of skills for physical and psychosocial health assessment across the lifespan. Prerequisites: admission to the Nursing major; NURS 331, NURS 341, NURS 343 and NURS 345 (can be taken concurrently).

NURS 351 NURSING PRACTICE I: HEALTH PROMOTION ACROSS THE LIFESPAN (4) Major concepts of health, health promotion and maintenance for clients throughout the lifespan. Initial experience in the provider role of the professional nurse. Prerequisites: admission to the nursing major; NURS 331, NURS 341, NURS 343, NURS 345, and NURS 347 (can be taken concurrently).

NURS 353 NURSING PRACTICE II: ADULT HEALTH (5) Nursing care of adults experiencing alterations in health. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisite: completion of all courses in junior year, first semester.

NURS 355 NURSING PRACTICE III: CHILDBEARING FAMILIES (5) Nursing care of childbearing families. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisite: completion of all courses in junior year, first semester.

NURS 385 SEMINAR I (1) Developing collaborative relationships with faculty, peers, and mentors; formulating a plan for professional development; and initiating and presenting a scholarly project. Prerequisite: admission to the USM cooperative "Bridge" program.

NURS 404 HEALTH CARE: AN INTERDISCIPLINARY APPROACH (3) Health care in America, exploring societal factors, resources, social policy, health care delivery, legal and ethical issues. Prerequisite: junior/senior status.

NURS 406 CULTURAL DIVERSITY AND HEALTH CARE (3) Transcultural health care principles, focusing on cultural influences on biological, psychological, sociological, intellectual and spiritual dimensions of individuals. Historical perspective to contemporary cultural health care. GenEd II.B.3.

NURS 431 PROFESSIONAL NURSING II: RESEARCH (2) Nursing research through preparation of a proposal; qualitative and quantitative approaches and ethical issues. Prerequisites: completion of all courses in the junior level; MATH 231 or MATH 237 or PSYC 212.

NURS 433 PROFESSIONAL NURSING III: ISSUES (3) Transition from student to registered nurse; contemporary issues and challenges of professional nursing. Prerequisite: completion of all courses in the senior year, first semester. GenEd I.D.

NURS 451 NURSING PRACTICE IV: PSYCHIATRIC AND MENTAL HEALTH (5) Nursing care of adults experiencing alterations in psychological and/or social behaviors. Application of critical thinking skills and therapeutic nursing interventions in a variety of community-based environments. Prerequisite: completion of all courses in the junior level.

NURS 453 NURSING PRACTICE V: CHILD HEALTH (5) Nursing care of children experiencing alterations in health. Application of critical thinking skills and therapeutic nursing interventions in a variety of

community-based environments. Prerequisite: completion of all courses in the junior level.

NURS 455 NURSING PRACTICE VI: COMMUNITY HEALTH (5) Role of the professional nurse as provider and coordinator of care for complex families, aggregates and communities. Prerequisite: completion of all courses in the senior year, first semester.

NURS 457 NURSING PRACTICE VII: CLINICAL PRACTICUM (2) Provider role of the nurse in a selected clinical environment. Application of critical thinking and therapeutic nursing interventions. Graded S/U. Prerequisite: completion of all courses in the senior year, first semester.

NURS 459 NURSING PRACTICE VIII: LEADERSHIP AND MANAGEMENT (4) Leadership roles and management functions of the nurse as coordinator of care for clients across the lifespan in a variety of health care environments. Prerequisite: completion of all courses senior year, first semester: NURS 433, NURS 455, NURS 457 (can be taken concurrently).

NURS 485 SEMINAR II (1) Develops roles and responsibilities of nursing leaders. Prerequisite: NURS 385.

NURS 487 SEMINAR III (1) Trends, issues and roles related to advanced practice nursing. Prerequisite: NURS 485.

NURS 491 DIRECTED READINGS (1-3) Independent reading designed to explore topics and/or issues of special interest to the practice of nursing. Prerequisites: completion of all 300-level nursing courses and permission of chair of the department.

NURS 493 INDEPENDENT STUDY (1-3) Directed study designed to provide an in-depth educational experience in nursing. Topics related to theory and practice of nursing. Prerequisites: completion of all 300-level nursing courses or equivalent and permission of chair of department.

NURS 494 [594] TRAVEL STUDY IN NURSING (3-9) Historical and contemporary socio-political factors that guide the delivery of health care to various population groups in other countries. May be repeated for a maximum of 9 credits. Prerequisite: Consent of instructor.

OCCUPATIONAL THERAPY (OCTH)**Lower Division**

OCTH 103 LEISURE AND HEALTH ISSUES IN CONTEMPORARY SOCIETY (3) The history and meaning of leisure activity, contemporary issues, and the importance of leisure to health maintenance. Strategies for personally healthy activity. GenEd II.B.3.

OCTH 211 PHILOSOPHY OF OCCUPATIONAL THERAPY (3) Occupation and the impact of information and technology on health and treatment of disability. GenEd I.B.

OCTH 213 SMALL GROUP DYNAMICS (3) A study of small groups used in therapeutic or health education settings. Lectures will examine group members' and leaders' roles, stages of a group's life, theory of developmental groups, and the structure and function of a variety of small groups used in therapy, education, and community settings. Participatory experiences will supplement lectures to promote personal communication and effectiveness in groups. Prerequisites: SOCI 101, PSYC 101.

OCTH 216 LIFE SPAN ADAPTATION AND OCCUPATIONS (4) Interactions of biological, sensorimotor, and psychosocial aspects of development with environmental and cultural factors; occupational roles and processes of change. Prerequisites: BIOL 110, PSYC 101, SOCI 101, ENGL 102.

OCTH 217 ANALYSIS OF OCCUPATIONAL PERFORMANCE I (4) Beginning development of occupational performance skills necessary for clinical practice. Corequisites: OCTH 213 and OCTH 216.

OCTH 218 ANALYSIS OF OCCUPATIONAL PERFORMANCE II (3) Laboratory experience to develop students' knowledge of the skills necessary in therapeutic media, technology application, job analysis and health maintenance. Prerequisites: OCTH 213, OCTH 216, OCTH 217.

OCTH 221 CLINICAL KINESIOLOGY (3) Principles of biomechanics, muscle physiology, joint structure and muscle function, emphasizing palpation of anatomical structures and analysis of movement. Prerequisites: OCTH 217, PHYS 202, BIOL 213.

Upper Division

- OCTH 313 PHYSICAL DYSFUNCTION: NEUROLOGICAL CONDITIONS** (3) Etiology, clinical course, management and prognosis of neurological conditions. Theory and practice applied to clients. Prerequisites: OCTH 211, OCTH 218, OCTH 221; BIOL 214, BIOL 427; to be taken concurrently with OCTH 319.
- OCTH 314 PSYCHOSOCIAL DYSFUNCTION** (4) Etiology, clinical course, management and prognosis of psychiatric conditions. Theory and practice applied to clients. Prerequisites: OCTH 211, OCTH 213, OCTH 218, PSYC 361; to be taken concurrently with OCTH 320.
- OCTH 315 PATHOLOGICAL CONDITIONS** (3) Etiology, physiology, performance effects, treatment approaches, precautions and prognosis of medical conditions in clients. Prerequisites: BIOL 214, BIOL 427; to be taken concurrently with OCTH 319 or OCTH 320.
- OCTH 317 PHYSICAL DYSFUNCTION: MUSCULOSKELETAL CONDITIONS** (2) Etiology, clinical course, management and prognosis of musculoskeletal conditions. Theory and practice applied to clients. Prerequisites: OCTH 211, OCTH 218, OCTH 221; BIOL 214, BIOL 427.
- OCTH 318 INDEPENDENT STUDY** (1-6) Directed independent study designed to provide students with an in-depth investigation of an area or problem specific to occupational therapy. Consultation and supervision with designated faculty members and/or clinical practitioners. May be repeated for a maximum of 6 credits. Prerequisites: undergraduate major in Occupational Therapy, consent of instructor.
- OCTH 319 PHYSICAL DYSFUNCTION CLINICAL** (2) Laboratory and clinical practice in specific evaluation and treatment techniques in physical disabilities. Prerequisites: OCTH 211, OCTH 218, OCTH 221, BIOL 214, BIOL 427; to be taken concurrently with OCTH 313.
- OCTH 320 PSYCHOSOCIAL DYSFUNCTION CLINICAL** (2) Laboratory and clinical practice in specific evaluation and treatment techniques in psychosocial occupational therapy. Prerequisites: OCTH 211, OCTH 218, OCTH 213, PSYC 361; to be taken concurrently with OCTH 314.
- OCTH 323 GERONTOLOGICAL OCCUPATIONAL THERAPY** (2) Interventions addressing the aging process and pathology in older adults. Prerequisites: OCTH 211, OCTH 216, OCTH 218.
- OCTH 325 PEDIATRIC OCCUPATIONAL THERAPY** (4) Etiology, clinical course, management and prognosis of developmental and learning disabilities. Theory and practice applied to children and adolescents. Prerequisites: OCTH 313, OCTH 314, OCTH 315, OCTH 319, OCTH 320; to be taken concurrently with OCTH 326.
- OCTH 326 PEDIATRIC CLINICAL** (2) Laboratory and clinical practice in specific evaluation and treatment techniques in pediatric occupational therapy. Corequisites: OCTH 325.
- OCTH 412 O.T. HEALTH PROMOTION INITIATIVES IN THE COMMUNITY: CLINICAL** (2) Theory, practice and clinical experience to foster healthy development of individuals, families and communities. Prerequisites: OCTH 313, OCTH 314, OCTH 319, OCTH 320, OCTH 323.
- OCTH 428 OCCUPATIONAL THERAPY ORGANIZATIONS IN MODERN SOCIETY** (4) Administration of programs within service delivery systems, considering technological, societal, and economic trends. Prerequisites: OCTH 213, HLTH 207.
- OCTH 430 RESEARCH METHODS IN OCCUPATIONAL THERAPY** (3) Guided independent research in topics related to occupational therapy theory and practice. Presentation of introductory materials on research methods. Prerequisites: MATH 237, OCTH 313, OCTH 319, OCTH 314, OCTH 320. Fall. GenEd I.D.
- OCTH 435 OCCUPATIONAL THERAPY INTERNSHIP I** (6) Supervised field work experience in physical and psychosocial dysfunction. Graded S/U. Prerequisites: OCTH 313, OCTH 314, OCTH 315, OCTH 317, OCTH 319, OCTH 320, OCTH 323, and permission of department.
- OCTH 436 OCCUPATIONAL THERAPY INTERNSHIP II** (6) Supervised field work experience in physical and psychosocial dysfunction. Graded S/U. Prerequisites: OCTH 325-326, OCTH 412, OCTH 428, OCTH 429, OCTH 430, OCTH 435, and permission of department.
- OCTH 437 SPECIALTY INTERNSHIP** (4-6) Field work experience to meet the student's special interests. Graded S/U. May be repeated for a maximum of 6 credits. Prerequisites: OCTH 436 and permission of department.

OCTH 470-479 [570-579] SPECIAL TOPICS IN OCCUPATIONAL THERAPY (1-3) Designed to explore topics of special interest in the theory and practice of occupational therapy. May be repeated for a maximum of 3 credits provided a different topic is covered. Prerequisite: consent of instructor.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

PHILOSOPHY (PHIL)

Lower Division

- PHIL 101 INTRODUCTION TO PHILOSOPHY** (3) Fundamental problems of philosophy and various proposals for the solution of these problems. GenEd II.C.1.
- PHIL 102 USING INFORMATION EFFECTIVELY IN PHILOSOPHY** (3) Information gathering, evaluation and communication. Develops critical thinking and problem solving techniques, communication and team building skills. GenEd I.B.
- PHIL 105 INTRODUCTION TO THE STUDY OF RELIGION** (3) A study of various religious explanations and organizations of the cosmos and of human life, drawing on diverse theoretical methodologies. GenEd II.D.
- PHIL 111 LOGIC** (3) Study of and practice in inductive and deductive reasoning, the composition of argument and demonstration, and the detection of formal and informal fallacies as developed in the western tradition. GenEd II.C.1.
- PHIL 201 SOCIAL AND POLITICAL PHILOSOPHY** (3) A consideration of social and political doctrines from both Western and non-Western philosophical perspectives. The approach will be both historical and thematic. Themes will include the individual and the state, the male-female dialectic, and attitudes toward property.
- PHIL 204 RACE, CLASS AND GENDER** (3) Social and political philosophy; contemporary American ideas of race, class and gender, with a focus on their interrelatedness. GenEd II.C.3.
- PHIL 205 WOMEN IN WORLD RELIGIONS** (3) Role of women, both human and divine, in the major Asian and Western religions. GenEd II.D.
- PHIL 206 JUDAISM, CHRISTIANITY AND ISLAM** (3) History, scriptures, doctrines, practices and interactions of three monotheistic religions. GenEd II.C.3.
- PHIL 212 HONORS COURSE: SPECIAL STUDIES IN PHILOSOPHY** (3) Small group discussions and philosophical analysis of selected works not generally available in other electives. May be repeated for credit provided a different topic is covered. Prerequisite: admission to Honors College.
- PHIL 219 INTRODUCTION TO ASIAN PHILOSOPHY** (3) Examination of the nature of Asian thought through a study of English translations of traditional sources of Indian, Tibetan, Chinese and Japanese philosophy. GenEd II.D.
- PHIL 221 ANCIENT GREEK PHILOSOPHY** (3) The origins of Western philosophical thought will be studied in the works of the presocratics, Socrates, Plato and Aristotle. GenEd II.C.1.
- PHIL 230 PHILOSOPHY OF LITERATURE** (3) Philosophical analysis of literature. A consideration of philosophical orientations in these works will be undertaken.
- PHIL 251 AFRICAN AMERICAN PHILOSOPHY** (3) A philosophical examination of the current issues in African-American thought in such fields as religion, politics, education, economics and aesthetics. An effort will be made to determine the place and the role of the contemporary African American in history. GenEd II.C.3.
- PHIL 253 CONTEMPORARY ETHICAL PROBLEMS** (3) The meaning of moral experience and the moral problems which arise in connection with human sexual integrity, ownership of property, welfare, violence, civil disobedience, punishment, war, and truth telling in social relations and government. GenEd II.B.3.
- PHIL 255 ENVIRONMENTAL ETHICS** (3) Philosophical views on rights of non-human animals, intervaluation of environment and economics, "deep" vs. "shallow" ecological ethics, duties to future generations and other issues. GenEd II.B.3.
- PHIL 270-279 PHILOSOPHICAL PERSPECTIVES** (3) Considers contemporary issues from the uniquely philosophical perspective to stimulate independent reflection. May be repeated for credit provided a different topic is covered.

Upper Division

- PHIL 301 [501] PHILOSOPHIES OF INDIA (3)** Examination of major ideas in the Vedic, Epic, Classical darsana, and modern periods. Prerequisite: one lower-level course in philosophy or consent of instructor.
- PHIL 302 [502] PHILOSOPHIES OF CHINA AND JAPAN (3)** Examination of some major philosophical systems through selected writings in translation. Prerequisite: one lower-level course in philosophy or consent of instructor.
- PHIL 311 SYMBOLIC LOGIC (3)** An introduction to the concepts and methods of symbolic logic. Translation of arguments from English into symbolic notation; methods of establishing the validity of arguments by means of symbolic logic. Discussion of logical notions, such as consistency and inconsistency, logical truth and the philosophy of logic. Prerequisite: PHIL 111 or consent of instructor.
- PHIL 319 SCIENCE, TECHNOLOGY AND VALUES (3)** Impact of modern science on various philosophical issues: science and religion, mind and computers, time travel, Einstein's relativity, human freedom, the ethical limits of technology. Prerequisites: one course in philosophy and two courses in science, or consent of instructor. GenEd II.A.2.
- PHIL 320 PHILOSOPHY OF SCIENCE (3)** Concepts, method and nature of science including induction and theory confirmation, probability, explanation, natural laws, space and time and the objectivity of science. Prerequisite: one course in either philosophy or science.
- PHIL 321 PHILOSOPHY OF LAW (3)** An examination of the nature and theories of law, the relationship between law and morality, the nature of legal obligation, and the notion of justice. Prerequisite: one lower-level course in philosophy or consent of the instructor.
- PHIL 322 [522] HELLENISTIC AND MEDIEVAL PHILOSOPHY (3)** The philosophical schools of the Hellenistic and Roman periods, viz. Stoicism, Epicureanism, Scepticism and Neo-Platonism, and the two main Christian philosophies of the Middle Ages, viz., Augustinianism and Thomism. Prerequisite: one lower-level course in philosophy.
- PHIL 324 [524] MODERN PHILOSOPHY (3)** The history of philosophy beginning with Descartes through the 19th century. Prerequisite: one lower-level course in philosophy.
- PHIL 325 [525] SCHOOLS OF CONTEMPORARY PHILOSOPHY (3)** A survey with varying emphasis on a number of such contemporary philosophical positions as pragmatism, phenomenology, logical positivism, the analysts, neo-Aristotelianism, the philosophers of science and the existentialists. Prerequisite: one lower-level course in philosophy.
- PHIL 326 [526] AMERICAN PHILOSOPHY (3)** The history of the main currents of American philosophical thought as exemplified in such writers as Edwards, Emerson, Pierce, James, Royce, Dewey and Whitehead. Prerequisite: one lower-level course in philosophy.
- PHIL 327 AFRICAN PHILOSOPHY (3)** Examination of major ideas and issues in African Systems of Thought. Prerequisite: one lower-level philosophy course or consent of instructor.
- PHIL 331 [531] CONCEPTS OF WOMAN: AN HISTORICAL APPROACH (3)** Various concepts which philosophers have used to define woman. An historical survey approach, with readings from Plato, Aquinas and others, and ending with Beauvoir. Prerequisite: one lower-level course in philosophy.
- PHIL 332 FEMINIST PHILOSOPHY (3)** Contemporary methods and problems, including redefinition of traditional areas of philosophy and creation of new issues for investigation. Prerequisite: one lower-level philosophy course or consent of instructor.
- PHIL 339 [539] THEORIES OF KNOWLEDGE (3)** An historical and systematic approach to the truth value and elements of the forms of human knowledge. The theories of major philosophers will be studied. Prerequisite: one lower-level course in philosophy.
- PHIL 341 [511] ETHICS (3)** Analysis of readings from the principle classical and contemporary ethical sources, study of the basic moral concepts as found in these sources; applications to contemporary moral concerns. Prerequisite: one lower-level course in philosophy.
- PHIL 343 [509] AESTHETICS (3)** An analytical and historical examination of concepts of the nature of art, beauty, aesthetic value, aesthetic perception, and of the modes of existence of artifacts. Prerequisite: one lower-level course in philosophy.
- PHIL 353 [551] PHILOSOPHY OF RELIGION (3)** Exposition of various approaches to the philosophy of religion with an analysis of the major issues on which they differ and agree. Not open to those who have successfully completed PHIL 451. Prerequisites: two courses in philosophy or religion.
- PHIL 355 [555] INTERPRETATIONS OF THE BIBLE: NEW TESTAMENT (3)** Major themes of the biblical literature, and of its religious, philosophical and cultural implications. Prerequisite: one lower-level course in philosophy or religion.
- PHIL 357 [557] TOPICS IN COMPARATIVE RELIGION (3)** Study of a number of the world's major religious traditions emphasizing specific philosophical and psychological problems encountered therein. Prerequisite: at least one lower-level course in philosophy, religion or history.
- PHIL 361 [561] ETHICS OF MEDICINE AND THE LIFE SCIENCES (3)** A search for guidelines in such moral problems as abortion, the care of the dying, organ transplants, informed consent in therapy and experimentation, adequate health care and its just distribution, control of human behavior by drugs, surgery, etc., test-tube reproduction, population control, genetic engineering and counseling. Prerequisite: one lower-level course in philosophy or consent of instructor.
- PHIL 371 [563] BUSINESS ETHICS (3)** Economics is one of the "moral sciences" insofar as it deals with an important sphere of human activity which intends a good. This course will institute a philosophical reflection on economic ideas as they appear in the three main categories of opinion, viz., conservative, liberal and radical. Attention will be drawn to the epistemological, ethical and metaphysical presuppositions of these traditions. Prerequisite: one lower-level course in philosophy or consent of instructor.
- PHIL 380-389[580-589] PHILOSOPHICAL TOPICS (3)** Courses offered under this title will be of variable content. Topics of traditional philosophical interest or of philosophical problems in other areas of knowledge or of contemporary interest will be offered. May be repeated for credit provided a different topic is covered. Prerequisite: one lower-level course in philosophy.
- PHIL 413 [513] PHENOMENOLOGY (3)** An examination of phenomenology as both a philosophical method and philosophical position. Themes to be considered include consciousness, the body, time and the experience of others. Primary course readings in the works of Husserl, Heidegger, Sartre, Merleau-Ponty. Prerequisite: two courses in philosophy.
- PHIL 417 [517] EXISTENTIALISM (3)** Some of the major existentialist philosophers will be studied, e.g., Kierkegaard, Nietzsche, Heidegger, Sartre, Beauvoir. The philosophical themes of transcendence, the absurd, estrangement and anxiety will be considered. Prerequisite: two courses in philosophy.
- PHIL 440-449 [540-549] PHILOSOPHICAL SYSTEMS (3)** The study of a major philosophical system or position, classical or modern, and of its important proponents. May be repeated for credit provided a different topic is covered. Prerequisites: two courses in philosophy.
- PHIL 460-469 WRITING SEMINAR IN PHILOSOPHICAL STUDIES (3)** The course concentrates on a specific issue or thinker within the philosophical tradition and on developing the skills necessary to do quality written work in the discipline. Possible topics include Plato, Aristotle, Hegel, Concepts of Space and Time, Dimensions of Freedom. May be repeated for credit provided a different topic is covered. Prerequisites: ENGL 102 and two courses in philosophy. GenEd I.D.
- PHIL 470-479 [570-579] PHILOSOPHICAL PROBLEMS (3)** A consideration of one of the perennial interests of philosophy. May be repeated for credit provided a different topic is covered. Prerequisite: two courses in philosophy.
- PHIL 495 RESEARCH TUTORIAL IN PHILOSOPHY (3)** Directed readings and research leading to a thesis paper under one or more members of the department. Prerequisites: senior majors in philosophy or senior non-major, submission in advance of an outline of proposed research; permission of proposed director and department chair.
- PHIL 497 PHILOSOPHY INTERNSHIP (3-6)** Supervised experience in work settings using the analytic, organizational, comprehension, and communication skills and content knowledge available through the study of philosophy. Positions may be in government agencies, public or private foundations, industry, journalism, law firms, among others. May be repeated for a maximum of 6 credits. No credit toward the Philosophy major. Prerequisite: approval of the philosophy internship coordinator. Graded S/U.

PHYSICAL EDUCATION (PHEA)**Lower Division**

PHEA 110-239 These courses include a variety of sport skills for non-majors. For specific titles, credits, descriptions and prerequisites, consult the Department of Kinesiology.

PHYSICAL SCIENCE (PHSC)**Lower Division**

PHSC 101 PHYSICAL SCIENCE I (4) Fundamental principles of selected topics from physics and chemistry, emphasizing construction of concepts from experimental evidence. May not be used for the Natural Science major. GenEd II.A.1.

PHSC 103 PHYSICAL SCIENCE II (4) Fundamental concepts of atoms, molecules, energy, states of matter, and processes involved in phase transitions integrating chemistry, earth science and physics through application to interdisciplinary environmentally oriented topics. One hour lecture, four hours lecture-lab. Prerequisite: PHSC 101 or permission of instructor.

PHSC 151 ENERGY AND POLLUTION (3) Basic forms of energy: thermal, electrical, nuclear, solar. The relationship between energy and pollution. The problems of energy and pollution. Two hours of lecture and two hours of laboratory per week. High school algebra is suggested.

PHSC 195 COURSE RESEARCH IN 100-LEVEL COURSES (1) Individual projects in any branch of physical science. Students can choose either to work on projects or in areas suggested by physical science faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: permission of the instructor who will direct the proposed work.

PHSC 234 STILL PHOTOGRAPHY (3) Emphasis will be on the production of photographs, rather than the mastery of many techniques. Camera operation, developing, printing and other topics according to student interest.

PHSC 295 COURSE RESEARCH IN 200-LEVEL COURSES (1) Individual projects in any branch of physical science. Students can choose either to work on projects or in areas suggested by physical science faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: permission of the instructor who will direct the proposed work.

Upper Division

PHSC 303 [503] EARTH-SPACE SCIENCE (3) Physical science principles applied in the study of earth and space. Emphasis on experimental and discovery approaches. Prerequisite: PHSC 101.

PHSC 360 INTERNSHIP IN PHYSICAL SCIENCE (2-3) Practical experience in Physical Science in industry or public or private agencies through the university's Internship/Cooperative Education Program. Special permit and fee required. May be repeated for a maximum of 6 credits. Prerequisites: major in Natural Science, junior or senior standing; 2.70 QPA; consent of major adviser.

PHSC 401 [501] ADVANCED LABORATORY IN PHYSICAL SCIENCE (2) Exacting laboratory work of an advanced nature under the guidance of the Physical Sciences staff. Students will present and defend their work at seminar. May be repeated for a maximum of 6 credits. Prerequisite: consent of instructor.

PHSC 405 [505] FUNDAMENTAL CONCEPTS IN THE EARTH SCIENCES (3) Principles of astronomy, geology and related earth sciences. Methods of investigation employed by earth scientists. Observations in the planetarium and field studies in the Baltimore area. Two lecture hours and one two-hour laboratory period. No credit if student has taken ASTR 161 and/or GEOL 121. Prerequisite: PHSC 101 or equivalent.

PHSC 411 [511] PHYSICAL SCIENCE FOR TEACHERS (3) An in-service course for teachers in the elementary and/or junior high school designed to develop physical science concepts. Emphasis will be placed on developing these concepts through laboratory work. Prerequisite: teaching experience.

PHSC 470-479 [570-579] SPECIAL TOPICS IN PHYSICAL SCIENCE (1-4) The study of special topics in the areas of physical science. Special topics will be determined by their need for study and relevance to existing courses. May be repeated for credit provided a different topic is covered.

PHSC 490 INDEPENDENT STUDY IN PHYSICAL SCIENCE (1-4) Individual and supervised research in selected areas of the physical sciences. Topics may be either theoretically or experimentally oriented.

May be repeated for a maximum of 6 credits. Prerequisites: junior status and one course in PHSC.

PHSC 491 DIRECTED READINGS (1-4) Independent reading in an area selected by the student in consultation with the instructor. May be repeated for a maximum of 6 credits. Prerequisites: junior status and one course in PHSC.

PHSC 494 TRAVEL STUDY (1-3) Investigation of field problems and phenomena. May be repeated for a maximum of 3 credits.

PHSC 495 [595] COURSE RESEARCH IN 400-LEVEL COURSES (1) Individual projects in any branch of physical science. Students can choose either to work on projects or in areas suggested by physical science faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: permission of the instructor who will direct the proposed work.

PHYSICS (PHYS)**Lower Division**

PHYS 100 UNDERSTANDING PHYSICS (3) Designed for non-science majors. An inquiry into intuitive, philosophical, historical, and scientific understanding of principal concepts of classical and modern physics. Elementary algebra is used in this course, but emphasis is placed on physical understanding. Demonstrations and short illustrative experiments will be a part of the course. Three lecture hours. GenEd II.A.1.

PHYS 102 INTRODUCTION TO PHYSICS (3) Designed for students unprepared to take General Physics for Majors (PHYS 241), concentrating on mathematical expression of physical concepts as developed logically and through experimentation. This course begins meeting approximately one month into the semester and is scheduled to coincide with the lecture time for PHYS 241.

PHYS 103 HOW THINGS WORK (3) For non-science majors: a practical introduction to physics and science in everyday life. Examines the workings of everyday things from toys to next-generation computers. Introduces fundamental science concepts underpinning ordinary to high-tech objects, their principles of operation, the histories of their development. Emphasizes critical thinking and communication skills. GenEd II.A.1.

PHYS 106 INTRODUCTION TO ELECTRONICS (3) Digital and analog electronics including techniques, devices and laboratory practices. Prerequisite: high school algebra recommended.

PHYS 131 LIGHT AND COLOR (4) Some aspects of light and color and of vision will be examined on a factual and descriptive basis. Predominantly qualitative explorations will be made of the origin of light, of its wave and particular behavior, of the polarization of light, of lasers and holography, of the origin and physical basis of color, and of the physics of vision. This course in liberal arts physics is offered for curious inquirers who have had minimal contact with physics. Three lecture hours and two laboratory hours per week. GenEd II.A.1.

PHYS 135 INTRODUCTION TO HOLOGRAPHY (4) Creative use of the holographic medium along with study of appropriate scientific principles and aesthetic values. Behavior of waves, including water, sound and electromagnetic. Optics of lenses and mirrors. Lasers, holography, and experimental techniques of making holograms. Three lecture hours, two laboratory hours. GenEd II.A.1.

PHYS 141 PHYSICS OF SOUND AND MUSIC (3) Study of sound and its production by various instruments, including the human voice. Physical interpretations of concepts, such as noise, pitch, mechanical and acoustic waves and oscillations, loudness, harmonics and timbre, scales and temperament, etc.

PHYS 185 INTRODUCTORY HONORS SEMINAR IN PHYSICS (1) This seminar is intended for freshmen and sophomores who have demonstrated exceptional ability in the sciences and will involve them directly with current ideas and research in physics. Classical physics, quantum physics, relativity, and the new astronomy will be covered. Prerequisite: permission of the department.

PHYS 202 GENERAL PHYSICS FOR THE HEALTH SCIENCES (5) Special emphasis on motion, including kinetics and dynamics of linear and angular motion. Not intended for pre-medical, pre-dental, or pre-physical therapy programs. Prerequisite: three years of high school mathematics. GenEd II.A.1.

PHYS 203 TOPICS IN PHYSICS FOR BIOLOGY MAJORS (5) Topics may include mechanical and thermal properties of matter; forms of energy and conversion; optics; waves; electromagnetics. Students who wish to seek advanced degrees in biology, dentistry, medicine or related fields

should enroll in PHYS 211-212 or 241, 242, 243. Prerequisite: MATH 115.

PHYS 211-212 GENERAL PHYSICS I, II (4, 4) For Arts and Sciences, Biology, and Natural Science majors: mechanics, heat, light, electricity, magnetism, and a brief introduction to modern physics. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 115 or good standing in high school algebra and trigonometry. GenEd II.A.1.

PHYS 241 GENERAL PHYSICS I (4) Calculus-based physics for science and engineering majors. Mechanics and the conservation laws, gravitation, simple harmonic motion, electricity, magnetism, DC and AC currents, geometric optics. Prerequisite: MATH 273 (may be taken concurrently). GenEd II.A.1.

PHYS 242 GENERAL PHYSICS II (4) Calculus-based physics for science and engineering majors. Mechanics and the conservation laws, gravitation, simple harmonic motion, electricity, magnetism, DC and AC currents, geometric optics. Prerequisite: MATH 274 (may be taken concurrently). GenEd II.A.1.

PHYS 243 GENERAL PHYSICS III (3) Fluid kinematics and dynamics, waves, thermodynamics, physical optics, introduction to modern physics. Prerequisite: PHYS 242.

PHYS 244 MICROCOMPUTER APPLICATIONS IN THE PHYSICAL SCIENCES (3) Assembling your own personal computer and using it for data acquisition and analysis, numerical solutions, simulations, and special projects. Prerequisites: PHYS 211 or PHYS 241; COSC 165, or consent of instructor.

PHYS 295-296 RESEARCH PROBLEMS IN PHYSICS (1-3) Individual project in any branch of physics. Students can choose either to work on projects or in areas suggested by physics faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: permission of the instructor who will direct the proposed work.

Upper Division

PHYS 307 [507] INTRODUCTORY MATHEMATICAL PHYSICS (3) Mathematical expressions for selected topics, such as forces and potentials, vector analysis, applications of Fourier series and complex variables, and solutions of the harmonic oscillator and wave equations. Prerequisites: PHYS 212 or PHYS 242; MATH 274.

PHYS 311 [511] MODERN PHYSICS (4) Special relativity, the quantum theory, atomic structure and spectra, and nuclear structure and reactions are the main topics covered by the course. Other topics which may be covered involve molecular, solid state, and high energy physics. Four lecture hours. Prerequisites: MATH 274, PHYS 212 or PHYS 242.

PHYS 335 [533] BASIC ELECTRONICS (4) Circuit components, characteristics of semi-conductors, electrical measurements, method of circuit analysis, electronic devices. Three lecture hours and one three-hour laboratory period. Prerequisite: PHYS 212 or PHYS 242 or consent of instructor.

PHYS 337 [534] DIGITAL ELECTRONICS (4) Subjects covered will be basic concepts of digital electronics, such as gates, logic modules, truth tables, digital codes, sequential systems, semi-conductor memories, decade counters, etc. The laboratory program is designed to give students first-hand experience on the material covered in lecture using integrated circuits and LED display systems. Two hours lecture, three hours laboratory. Prerequisite: MATH 115 or equivalent.

PHYS 341-342 [541-542] INTERMEDIATE PHYSICS LABORATORY I, II (3, 3) First Semester: The measurement of several fundamental physical constants. Exploration of classical and modern research methods: lasers, holography, optical and nuclear spectroscopy. Second semester: Several advanced experiments and a research project. Familiarization with machine shop procedure, vacuum and other experimental techniques. Five laboratory hours. Prerequisite: PHYS 311 or concurrently. (Lab II: Prerequisite: PHYS 341)

PHYS 351 [550] MECHANICS (4) Systems of coordinates, kinematics, and transformations; Newtonian dynamics of particles and systems of particles; linear systems, oscillations, and series techniques; calculus of variations and the Lagrangian and Hamiltonian formulations; application of Lagrangians to gravitation/central force motion. Optional: non-linear oscillations. Prerequisites: PHYS 242; PHYS 307 or consent of instructor.

PHYS 352 [552] THERMODYNAMICS AND KINETIC THEORY (3) Principles and laws of classical thermodynamics applied to simple irreversible processes, including chemical, elastic, electric and magnetic

phenomena; thermodynamic functions and Maxwell's relations; the conservation equations in elementary kinetic theory; fluctuations; and irreversible transfer effects. May be taken concurrently with PHYS 243 or by permission. Three lecture hours. Prerequisites: PHYS 212 or PHYS 243; MATH 274.

PHYS 354 ELECTRICITY AND MAGNETISM (4) Electrostatics, magnetostatics and electromagnetic radiation, including Divergence Theorem and Stokes' Theorem, electrostatics in free space and dielectric materials, the Biot-Savart Law, the magnetic vector potential, inductance and electromotance, magnetic materials, Maxwell's Equations in free space and in materials, boundary value problems (Snell's and Fresnel's Laws). Prerequisites: PHYS 243; PHYS 307 or consent of instructor.

PHYS 361 OPTICS FUNDAMENTALS (4) Geometric, wave and quantum optics: lenses and mirrors, lens aberrations and design, optical instruments, interference diffraction, polarization, absorption and scattering, lasers, holography, and the dual nature of light. Three lecture hours and one three-hour laboratory each week. Prerequisites: PHYS 243, COSC 165, and PHYS 341 or consent of the instructor.

PHYS 391 INTERNSHIP IN PHYSICS (2-3) Practical experience in industry, public and private agencies. Not for major or minor credit. Special permit and fee required. May be repeated for a maximum of 6 credits. Prerequisites: 2.70 QPA, junior or senior standing, major in Physics, consent of department.

PHYS 395-396 [595-596] RESEARCH PROBLEMS IN PHYSICS (1-3) Individual project in any branch of physics. Students can choose either to work on projects or in areas suggested by physics faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for a maximum of 6 credits. Prerequisite: permission of the faculty member who will direct the proposed work.

PHYS 411 GRAVITATION, RELATIVITY AND COSMOLOGY (3) Development of Einstein's general theory of relativity and its relevance to astrophysics: theory of gravity, relativistic effects of massive stars, black holes, gravity waves, cosmology. Offered in alternate years.

PHYS 421 FUNDAMENTAL PARTICLES (3) Experimental and theoretical physics of particles and fields: particle production and detection, relativistic kinematics, symmetry, conservation laws, fundamental interactions, phenomenology and contemporary models. Prerequisites: PHYS 307 and PHYS 311.

PHYS 435 [535] ELECTRONICS (3) Principles of transistors with emphasis on their design and construction and an introduction to logic circuits. Two lecture hours and one two-hour laboratory. Prerequisite: PHYS 335.

PHYS 437 [537] INTRODUCTION TO MICROPROCESSOR-BASED DIGITAL SYSTEMS (3) An introductory course on basic microcomputer concepts. Topics covered include basic structure and organization of microcomputers, digital logic design, assembly language programming, memory elements, and applications. Hardware oriented experiments will be conducted providing practical experience in interfacing the microcomputer to a variety of instruments and input-output devices. Two hours lecture and two hours laboratory. Prerequisite: PHYS 307.

PHYS 445 [545] LASERS AND HOLOGRAPHY (3) The wave front reconstructions, laser, theory, the properties and making of holograms, and the applications of lasers and holography will be covered. Special projects will be assigned to students depending upon their individual theoretical and experimental background. Prerequisite: PHYS 243 or consent of instructor.

PHYS 451 [551] MECHANICS II (3) Continuation of PHYS 351. Rotation transformations; perturbation and Green's function techniques in solution of oscillating systems; collision; rotating frames of reference and dynamics of rigid bodies (including Euler's angles, precession, nutation); theory of coupled small oscillations. Optional: special relativity; continuum mechanics. Prerequisite: PHYS 351.

PHYS 453 [553] PHYSICAL OPTICS (3) Electromagnetic theory of light, wave solutions, interference, diffraction, scattering, radiation from coherent and incoherent sources, elementary theory of masers and lasers. Three lecture hours. Prerequisite: PHYS 354 or consent of instructor.

PHYS 454 ELECTRICITY AND MAGNETISM II (3) Continuation of PHYS 354. Wave guides, retarded potentials, dipole radiation, relativistic electrodynamics. Prerequisite: PHYS 354.

PHYS 455 [555] INTRODUCTORY QUANTUM MECHANICS (3) Schrödinger equation, states of one particle in one dimension, potential barrier problems in one dimension, the harmonic oscillator, system of particles in one dimension, motion in three dimensions, angular

momentum, spin, application to atomic physics. Prerequisites: PHYS 311, PHYS 351 (may be taken concurrently).

PHYS 456 [556] INTRODUCTION TO STATISTICAL MECHANICS (3) Distribution functions, microcanonical, canonical and grand canonical ensembles, the partition function and thermodynamics relations. Fermi-Dirac and Bose-Einstein statistics, some simple models and applications, the Maxwell-Boltzmann transport equation and the hydrodynamic equation, transport coefficients. Three lecture hours. Prerequisite: PHYS 455.

PHYS 457 SOLID STATE PHYSICS (3) Crystal structure, wave propagation in periodic structures, the Fermi gas, energy bands, magnetism are presented as a central theoretical core for the study of the solid state. Some of the basic models, concepts and manifest properties of solids are also included. Prerequisites: PHYS 311, PHYS 351, and PHYS 354.

PHYS 459 [559] NUCLEAR PHYSICS (3) A lecture and problem course dealing at the introductory level with experimental and theoretical methods for the study of nuclear structure. Topics to be covered include properties of nuclei, electromagnetic transition and beta decay; nuclear models, nuclear reactions, and two body interactions. Offered in alternate years. Prerequisites: PHYS 311; PHYS 307 or consent of instructor.

PHYS 461 ELECTRO-OPTICS (4) Optical sources and detectors, electronics, controls and modulators. Radiant energy and power measurements, laser instrumentation, fiber optics, photo-active devices. Three lecture hours and one three-hour laboratory each week. Prerequisites: PHYS 361, PHYS 335, and PHYS 341-342 or consent of instructor.

PHYS 485-486 [585-586] PHYSICS SEMINAR I, II (1, 1) Students participate in colloquia on topics of current interest in physics research under guidance of instructor. One lecture hour. Prerequisite: senior standing or consent of instructor.

PHYS 490 [590] INDEPENDENT STUDY IN PHYSICS (1-4) May be repeated for a maximum of 6 credits. Prerequisite: at least junior status and one course in the Department of Physics.

PHYS 491 [591] DIRECTED READINGS (1-4) May be repeated for a maximum of 6 credits. Prerequisites: At least junior status and one course in the department.

PHYS 495-496 RESEARCH PROBLEMS IN PHYSICS (1-3) Individual projects in any branch of physics. Students can choose either to work on projects or in areas suggested by physics faculty. At the completion of a project, students must write a formal research paper on the work done. Repeatable for credit at different levels. Prerequisite: permission of the instructor who will direct the proposed work.

PHYS 499 HONORS THESIS IN PHYSICS (1-4) Writing of an honors thesis based on independent research done under the direction of a staff member. May be repeated for a maximum of 6 credits. Prerequisites: consent of instructor and open only to advanced honors candidates.

POLITICAL SCIENCE (POSC)

Lower Division

POSC 100 USING INFORMATION EFFECTIVELY: UNDERSTANDING POLITICAL SYSTEMS (3) The nature of political systems and the skills necessary for systems thinking; methods and technologies for gathering, evaluating, and presenting information. Not open to those who successfully completed IDLA 103. GenEd I.B.

POSC 101 INTRODUCTION TO POLITICAL SCIENCE (3) The origins of modern governments. The nature of constitutions and constitutionalism. A definition and interpretation of politics. GenEd II.C.2.

POSC 103 AMERICAN NATIONAL GOVERNMENT (3) Structure and functions of the government of the United States and the problems involved in the extension of the scope of democratic government in our contemporary life. GenEd II.B.2.

POSC 105 GOVERNMENTS OF THE WORLD (3) Comparative survey of governments and political systems in a number of major countries in the world today. Attention given to political behavior, structures, processes and policies. Not open to those who successfully completed POSC 137. GenEd II.D.

POSC 107 INTRODUCTION TO INTERNATIONAL RELATIONS (3) An introductory examination of principles of legal, political, and social relations among nations, coordination and conflict in the international system, global issues, such as trade, security, war and peace, power and formation of foreign policy. GenEd II.D.

POSC 207 STATE GOVERNMENT (3) Historical background, state constitutions, and the legislative, executive and judicial branches of government. Problems of state administration and federal-state relations. GenEd II.B.2.

POSC 209 INTRODUCTION TO LAW (3) The legal process in the United States for the liberal arts student. Prerequisite: POSC 103. GenEd II.B.2.

POSC 212 HONORS IN POLITICAL SCIENCE (3) Supreme Courts as a political institution, including personal policy preferences of justices in regard to civil rights and liberties. Prerequisite: special permit and admission to Honors College. GenEd II.B.2.

Upper Division

POSC 303 [503] THEORY OF INTERNATIONAL POLITICS (3) The theories of mutual relations of states. Elements of national power; international politics as a struggle for power. Restraints upon the struggle for power. Prerequisite: HIST 242 or POSC 107 or consent of instructor.

POSC 305 [505] URBAN GOVERNMENT AND POLITICS (3) The political history of American cities from the 18th century through the recent reform movement. City charters, home rule, types of executives, political machines, the metropolitan area. Prerequisite: POSC 103.

POSC 307 [507] CONTEMPORARY INTERNATIONAL POLITICS (3) Computer simulation (conducted jointly with colleges and universities throughout the world) used to study the formulation and implementation of contemporary international politics. Prerequisite: POSC 107 or POSC 303 or consent of instructor.

POSC 337 [508] COMPARATIVE GOVERNMENT OF FOREIGN POWERS: THE WESTERN WORLD (3) An examination of the problems of modernization and stable constitutional rule in England, France, Italy and Germany. Prerequisite: POSC 101 or POSC 105 or consent of instructor.

POSC 339 [509] COMPARATIVE POLITICAL SYSTEMS (3) Attempt to bring together the analytical concepts and methodological techniques that may be applied to the study of political systems in a comparative sense. Prerequisite: POSC 103 or POSC 105 or consent of instructor.

POSC 340 COMPARATIVE PUBLIC POLICY (3) Comparative study of the policy problems and processes of the United States, Canada and western European countries, focusing on the growing convergence of public policy making in the states of the developed world. Prerequisites: POSC 101, POSC 103, POSC 105 or consent of instructor.

POSC 341 [511] AFRICAN GOVERNMENT AND POLITICS (3) An examination of the rise of African nationalism and the emergence of new states in Africa. Attention is directed to the influence of colonial rule and traditional political institutions on the development of party politics, patterns of government, and Pan-African ideas. A trend toward military rule, political problems of the independent Africa, and the efforts of each country to build a strong and viable political system are emphasized. Prerequisite: any political science course or consent of instructor.

POSC 351 [551] THE GOVERNMENT AND POLITICS OF LATIN AMERICA (3) An examination of the informal and formal rules of the political "game" in Latin America with an emphasis on four types of political systems found in contemporary Latin America: democratic reformist, revolutionary, populist, and military authoritarian. Prerequisite: POSC 101 or POSC 105 or consent of instructor.

POSC 355 [512] THE LATIN AMERICAN POLICY OF THE UNITED STATES (3) An analysis of the Latin American policy of the United States from the Monroe Doctrine to the present. Emphasis will be on historical, political, economic and security factors in the ebb and flow of inter-American relations. Prerequisite: POSC 101 or POSC 105 or consent of instructor.

POSC 359 [559] POLITICAL AND SOCIAL ASPECTS OF REVOLUTION (3) Nature and function of violence and revolution in modern social systems. Prerequisite: POSC 101 or POSC 105 or consent of instructor.

POSC 361 [513] POLITICAL BEHAVIOR (3) Introduces students to the substantive theory and methodology of behavioral analysis. Topics include voting behavior, elite behavior, and an analysis of the role of pressure groups and public opinion in the American political system. Prerequisite: junior standing and 9 hours of political science or consent of instructor.

POSC 375 [514] PUBLIC ADMINISTRATION (3) Administration as a central element of contemporary society, with special reference to the problems of government organization, control, personnel, finance and public relations. Prerequisite: POSC 103.

POSC 381 [515] THE PRESIDENCY (3) A discussion of the origin of the office, the selection of the president and policymaking in the executive branch. Prerequisite: POSC 103.

POSC 383 [516] CONGRESS (3) An investigation of the relations of Congress with the other branches of government and with the political parties and

- interest groups. Also examines the relationships between members of Congress and their constituency as well as the internal dynamics of Congress. Prerequisite: POSC 103.
- POSC 385 MODEL ORGANIZATION OF AMERICAN STATES (3-6)** Structure and function of OAS, the inter-American system, and U.S. Latin American policy. Students represent member states of the OAS in a mock General Assembly in Washington, D.C. May be repeated for a maximum of 6 credits. Prerequisites: sophomore standing and written consent of instructor.
- POSC 417 [517] AMERICAN POLITICAL PARTIES (3)** Origin and development of the American two-party system. The activities of pressure groups and organizations, and their effects upon the party system. Prerequisite: POSC 103 or consent of instructor.
- POSC 418 [518] CONSTITUTIONAL LAW I (3)** First half of sequence on origins of the Constitution, the separation of powers and federalism. Prerequisite: POSC 101 or POSC 103.
- POSC 419 [519] CONSTITUTIONAL LAW II (3)** The second half of a two-part sequence covering the major issues of Constitutional Law. Focuses primarily on the activities of the Supreme Court in the area of civil rights and civil liberties. Prerequisite: POSC 101 or POSC 103.
- POSC 421 POLITICS AND ENVIRONMENTAL POLICY (3)** Analysis and investigation of U.S. environmental problems from a political perspective. Prerequisites: POSC 103 or consent of instructor.
- POSC 425 LEGAL THEORY (3)** Focuses on the salient arguments for and against the major legal issues of our time. Readings, drawn from time-honored writers of the past, are designed to evoke continuous discussion and debate on contemporary problems in the law. Prerequisites: junior standing and 9 credits of political science or consent of instructor.
- POSC 427 [527] POLITICAL THEORY I (3)** Political thought in the west from the Greeks to the end of the 16th century. Prerequisite: POSC 101 or consent of instructor.
- POSC 428 [528] POLITICAL THEORY II (3)** Political philosophers and their writings since the 16th century. Attention given to the conflict of ideologies in the 20th century. Prerequisite: POSC 101 or consent of instructor.
- POSC 430 [530] POLITICAL IDEAS OF SOCIALISM AND COMMUNISM (3)** Selected topics in the political theory of socialism and communism including socialism and the ancient regimes, socialism and political organization, Russian, Leninist, and Stalinist theory, and socialist ideas in the post cold war period. Prerequisite: POSC 428.
- POSC 432 [532] UNITED STATES-RUSSIAN RELATIONS (3)** Relations between the United States and Russia. Emphasis on Soviet and post-Soviet periods, nationalities, democratization, and creation of market economies. Prerequisite: any 100-level political science course or consent of instructor.
- POSC 435 [535] AFRICA IN WORLD POLITICS (3)** The role of African nations in the nuclear age and their efforts to achieve unity. Prerequisite: POSC 341 or consent of instructor.
- POSC 437 [537] CASTRO AND THE CUBAN REVOLUTION (3)** A discussion of the factors that led up to the Castro Revolution in 1959 and the subsequent impact of the creation of the first socialist state on the Western Hemisphere. Prerequisite: POSC 355 or POSC 351 or consent of instructor.
- POSC 441 [541] CONTEMPORARY UNITED STATES-WESTERN EUROPEAN RELATIONS (3)** Emphasis will be on NATO, the European Economic Community, and the Anglo-American efforts to create an Atlantic partnership between Europe and the United States. Prerequisite: POSC 103 or POSC 105 or consent of instructor.
- POSC 450 [550] GROUP POLITICS AND PUBLIC OPINION (3)** The role of pressure groups and public opinion in the American political system. Prerequisite: junior standing and 9 hours of political science, or consent of instructor.
- POSC 455-456 [555-556] SEMINAR: INTERNATIONAL LAW AND ORGANIZATION I, II (3, 3)** An examination of the theories and the development of international law up to the present. The character of the modern state system, the role of international organizations, and international law and resort to force. Prerequisites: 15 credits in POSC, including POSC 303, or consent of instructor.
- POSC 457 [557] SEMINAR: USE OF FORCE IN INTERNATIONAL LAW (3)** The course will examine the use of force as an instrument of foreign policy by various states and survey the legal restraints on its use. Prerequisites: 15 credits in POSC including POSC 303, or consent of instructor.
- POSC 459 SIMULATION AND GAMES IN POLITICAL SCIENCE (3)** Political decisions using rational choice and game theory. Discussing voting methods, public goods, and paradoxes of collective choice using computer simulation. Prerequisite: one upper-level (300/400) political science course or consent of instructor.
- POSC 461 [561] RESEARCH METHODS IN POLITICAL BEHAVIOR (3)** The major emphasis will be on the use of quantitative techniques in political research. Topics include survey research, the use of computers, and statistical analysis. Prerequisite: any POSC course at 100-level.
- POSC 465 EDITORIAL WORK — TOWSON JOURNAL OF INTERNATIONAL AFFAIRS (1)** One to three per semester — three semester limit. Members of the Editorial Board of *The Towson Journal of International Affairs* prepare the issues of that journal under the supervision of faculty advisers. Admission by consent of the instructor. Graded S/U.
- POSC 467 [567] POLITICS AND THE BUDGETARY PROCESS (3)** Analysis of the budgetary process. Not open to students who successfully completed this course as a special topic (POSC 470-479) course. Prerequisite: POSC 375 or consent of instructor.
- POSC 470-479 [570-579] SPECIAL TOPICS IN POLITICAL SCIENCE (3)** An examination of current topics in political science. The content of the course will depend upon mutual faculty and student interest. May be repeated for credit provided a different topic is covered. Prerequisite: Any 100-level POSC course or consent of instructor.
- POSC 481 SEMINAR: PUBLIC POLICY ANALYSIS (3)** Theoretical and practical approaches in the analysis of policy formulation, implementation and evaluation. Prerequisite: 15 semester hours in POSC including one upper-division course or consent of instructor.
- POSC 482 [582] SEMINAR IN POLITICAL SCIENCE (3)** Various methods and techniques of research in political science, culminating in the preparation of a seminar paper. Prerequisite: 15 credits in political science or consent of instructor.
- POSC 483 [583] SEMINAR POLITICS AND THE NEWS MEDIA (3)** Focuses on the relationship between the government and the news media. Considers such topics as White House operations, the First Amendment, government efforts to control the news, and efforts by the media at self-regulation. Prerequisites: 15 credits in POSC including an upper-level course or consent of instructor.
- POSC 485 [585] SEMINAR: DEMOCRATIC THEORY SEMINAR (3)** Traces democratic theory from its 16th-century origins and analyzes variants which have been proposed since that time. Prerequisites: 15 credits in POSC, including POSC 428, or consent of instructor.
- POSC 486 [586] SEMINAR: JUSTICE AND THE LAW (3)** Central legal, political and moral questions concerning justice and the law, discussion on justice as an achievable goal in human society, particularly in the modern democratic state. Prerequisites: minimum of 15 credits in POSC, including POSC 418 or POSC 419, or consent of instructor.
- POSC 488 [588] SEMINAR: TOPICS IN PUBLIC POLICY (3)** A senior level seminar in the field of public policy, focusing on policy areas of contemporary interest and significance. Prerequisite: 15 credits in POSC or consent of instructor.
- POSC 490 [590] INDEPENDENT STUDY (1-3)** Individual and supervised study in selected areas of political science. May be repeated for a maximum of 6 credits. Admission by consent of instructor.
- POSC 491 [591] SEMINAR: CONTEMPORARY U.S. FOREIGN POLICY (3)** An examination of the contemporary nature, basis and instruments of American foreign policy. Formulation and implementation of American foreign policy will also be examined. Prerequisites: 15 credits in POSC including POSC 107 or POSC 303, or consent of instructor.
- POSC 493 [593] INTERNSHIP (3-9)** Familiarizes students with the practical working of government institutions. The flexibility in time and credit arrangements will allow a variety of political experiences in which students combine theory and practice. No more than 3 credits may be earned in any one semester. Prerequisites: junior/senior standing and consent of instructor.
- POSC 498 DIRECTED READINGS IN POLITICAL SCIENCE (1-3)** Readings and research in preparation for the writing of a thesis or other research paper in political science under the supervision of one member of the political science faculty. Must be taken in advance of the Honors Thesis course. Prerequisites: 15 credits in political science, minimum average of 3.50 in POSC, and an overall QPA of 3.25. Consent of instructor.
- POSC 499 HONORS THESIS (3)** Research and writing of thesis directed by a faculty member in a chosen area of specialization. Prerequisites: 18 credits in political science, directed readings in political science, 3.50 average in political science and an overall QPA of 3.25, and consent of instructor.

PORTUGUESE (PORT)**Lower Division**

PORT 101-102 PORTUGUESE ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation. GenEd II.C.1.

PORT 201-202 PORTUGUESE INTERMEDIATE I, II (3, 3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisites: PORT 101-102 or equivalent. GenEd II.C.3.

PSYCHOLOGY (PSYC)**Lower Division**

PSYC 100 USING INFORMATION EFFECTIVELY IN THE BEHAVIORAL AND SOCIAL SCIENCES (3) Obtaining, evaluating and presenting social science information; critical thinking, problems of inference, search and analysis skills using computerized databases, Internet, statistical software, and communication skills. Recommended for those who major in the social or behavioral sciences. Not open to those who successfully completed IDLA 101. GenEd I.B.

PSYC 101 INTRODUCTION TO PSYCHOLOGY (3) Methods and principles. Attention to measurement, experimentation, sensation, remembering, personality, adjustment, development and individual differences. GenEd II.C.2.

PSYC 102 HONORS INTRODUCTION TO PSYCHOLOGY (3) Methods and principles. Attention to measurement and experimentation, psychobiology, sensation and perception, learning and memory, motivation and emotion, personality, adjustment, abnormality and psychotherapy, development and individual differences. Honors College course. Special permit only. GenEd II.C.2.

PSYC 201 EDUCATIONAL PSYCHOLOGY (3) The learning process and related concepts; human development; individual differences; measurement and evaluation; personality and adjustment. Prerequisite: PSYC 101 or PSYC 102.

PSYC 203 HUMAN DEVELOPMENT (3) Research and theories related to the overall development of the human throughout the life cycle with emphasis on the interaction of physiological, personality, and social components of development. Prerequisite: PSYC 101 or PSYC 102. GenEd II.B.2.

PSYC 204 HONORS HUMAN DEVELOPMENT (3) An in-depth study of research and theories related to the overall development of the human throughout the life span, with an emphasis on the interaction of physical, psychological, and social components. Honors College course. Prerequisite: PSYC 101 or PSYC 102. GenEd II.B.2.

PSYC 205 INTRODUCTION TO THE HELPING RELATIONSHIP (3) Current concepts of the helping relationship and an exploration of the conditions that facilitate its effectiveness. Not open to students who successfully completed PSYC 425. Prerequisites: PSYC 101 or PSYC 102 and Psychology major or minor planning to enter one of the helping professions, or consent of the department.

PSYC 206 APPLIED PSYCHOLOGY (3) Psychologists' contributions to education, medicine, law, mental health and business. Application to problems in these areas. Lectures and field trips. Prerequisite: PSYC 101 or PSYC 102.

PSYC 209 CONSUMER BEHAVIOR (3) Basic psychological concepts concerning consumer behavior, such as the cognition, perception, learning, attitudes, cognitive dissonance, risk-taking, motivation and personality of the buyer. Emphasis on the interrelation of economics and sociocultural factors on consumer decision-making, including recent research findings and marketing applications. Prerequisite: PSYC 101 or PSYC 102.

PSYC 211 CHILD PSYCHOLOGY (3) An introduction to and general survey of theories and research in child behavior. Development of major psychological functions with emphasis on application of principles in teaching and parenting. Psychology majors and minors will not receive credit for this course; majors and minors should take PSYC 203. Prerequisite: PSYC 101 or PSYC 102.

PSYC 212 BEHAVIORAL STATISTICS (4) Distributions and graphs, notation, levels of measurement, percentiles, measures of central tendency and variability, principles of probability, the normal curve, standard scores, sampling theory, hypothesis testing, significance of differences, correlation and prediction, computation on computer terminals, Chi square, Non-parametrics, One-Way analysis of variance. Not open to those who successfully completed PSYC 111. Prerequisites: four years of high school math or one college-level math course, excluding DVMT courses and MATH 204/205. GenEd I.C.

Upper Division

PSYC 301 SCIENCE, PSEUDOSCIENCE AND SUPERSTITION (3) Differentiating between scientific and pseudo-scientific claims, focusing on psychological factors that influence human judgment and decision-making. Possible topics include: astrology, alternative medicine, New Ageism, alien abductions, parapsychology. Prerequisite: PSYC 101.

PSYC 305 PSYCHOLOGY OF LEARNING (3) Analysis of selected problems in both human and animal learning including reinforcement, punishment, verbal learning, and verbal behavior. Prerequisite: 9 hours of PSYC or consent of instructor.

PSYC 309 [512] PSYCHOPHARMACOLOGY (3) Systematic investigation of effects of drugs on behavior. Prerequisite: 9 hours of PSYC or consent of instructor.

PSYC 311 [513] BEHAVIOR MODIFICATION (3) Examination and application of the basic principles of the experimental analysis of behavior, with an emphasis on the applied aspects of this modern discipline to schools, jobs, interpersonal relations and self-control. Prerequisite: 9 hours of PSYC or consent of instructor.

PSYC 314 EXPERIMENTAL PSYCHOLOGY (4) The experimental method and its application to recent problems in psychological research; introduction to experimental design and inference. Three hours lecture, two hours of laboratory per week. Not open to those who successfully completed PSYC 261. Prerequisites: PSYC 101 or PSYC 102, PHIL 101 or PHIL 102, ENGL 102 or ENGL 190, PSYC 212. GenEd I.D.

PSYC 315 [515] MOTIVATION (3) Interaction between physiological, neurological and pharmacological aspects of motivation with environmental influences, such as culture, learning and social dynamics. Issues in human motivation and emotion which will be emphasized are aggression, sex, achievement (competence) and cognitive-social influences. Prerequisite: 6 hours of PSYC. (PSYC 203 and junior standing recommended.)

PSYC 317 [517] SENSATION AND PERCEPTION (3) A systematic investigation on the basic senses such as vision, audition, taste, smell and touch will be undertaken. The organization of sensory input will also be emphasized. Both human and non-human data will be presented. Prerequisites: 9 hours of PSYC or consent of instructor; BIOL 110.

PSYC 325 [524] SOCIAL PSYCHOLOGY (3) The structure and function of groups. Recent advances in sociology, anthropology and psychiatry as related to psychology. Prerequisite: 6 hours of PSYC.

PSYC 327 INDUSTRIAL PSYCHOLOGY (3) Theories, psychological concepts, and research applied to industrial and organizational settings. Prerequisite: PSYC 101 or PSYC 102.

PSYC 328 [518] COMPUTER IMPACT ON PSYCHOLOGY AND HUMAN BEHAVIOR (3) Effect of computers on psychological training, research methods, clinical and counseling practices, theory development, psychological content, and human behavior. Examination of psychologically oriented computer programs (e.g., clinical interviewing). Computer experience not necessary. Prerequisite: 6 hours of PSYC or consent of instructor.

PSYC 341 [540] ENVIRONMENTAL PSYCHOLOGY (3) The relationship between the physical and social environment and behavior, i.e., places, spaces, and people. How man/woman construes, interprets, comprehends, feels about the environment, and how the environment functions as a reflection of human needs and values. Topics include environmental design, crowding, privacy, human territoriality, personal space. Prerequisite: PSYC 101 or PSYC 102.

PSYC 350 [550] PERSONALITY (3) Theoretical and practical approaches to the study of personality. Introduction to psychodynamics and to methods and materials of assessment. Prerequisites: 6 hours PSYC.

PSYC 361 [542] ABNORMAL PSYCHOLOGY (3) Disordered personal reactions to life. Organic and functional phenomena plus therapeutic techniques. Prerequisites: 9 hours of PSYC including PSYC 203 or consent of instructor.

PSYC 381 [581] READINGS IN PSYCHOLOGY (1-2) A survey of relevant research literature under the guidance of a staff member who will direct the students' research. May be repeated for a maximum of 4 credits. Prerequisite: 9 hours of PSYC and consent of instructor.

PSYC 383 PROCTORING IN PSYCHOLOGY (3-6) Students serve as teaching apprentices or proctors in a course which they have already completed (such as Introduction to Psychology), and which they must relearn to 100 percent mastery. Students will manage the learning and evaluate individual progress of the members of the class assigned to them. The experience includes guidance, support and motivation of the assigned students, all in a supervised situation. Only 3 credits may be earned in one semester. May be repeated for a maximum of 6 credits. For 6

- credits, students must serve as a proctor for two separate courses. Graded S/U. Prerequisites: successful completion of five or more psychology courses or: introductory, educational and child, or adolescent psychology, and principles of education and be a junior or a senior plus permission of instructor.
- PSYC 403 [503] PSYCHOLOGY OF INFANCY AND CHILDHOOD (3)** An advanced course reviewing historical and current changes in the areas of infancy and childhood. Emotional, cognitive, and individual development will be covered in depth. Emphasis is placed on critical analysis of research theory construction and methods. Not open to those who successfully completed ECED 413. Prerequisite: PSYC 203.
- PSYC 404 [504] ADOLESCENT PSYCHOLOGY (3)** Physical, emotional, intellectual development during adolescence; social development and heterosexuality; adolescent personality; problems of adjustment; juvenile delinquency. Prerequisite: PSYC 203.
- PSYC 405 [505] THE PSYCHOLOGY OF AGING (3)** The changes in learning, emotions, personality, and social behavior, and the impact of culture and attitude on the aging process. Prerequisite: 6 hours of PSYC including PSYC 203. Students should be aware of how to read and understand psychology journals and how psychological research is conducted.
- PSYC 411 [511] TESTS AND MEASUREMENTS (3)** Psychological and educational testing and evaluation. The construction, administration, interpretation and use of the various evaluative devices of aptitude and achievement. Prerequisites: PSYC 101 or PSYC 102 and PSYC 212.
- PSYC 419 [519] HUMANISTIC PSYCHOLOGY (3)** Explores the third force in modern psychology, considering the whole person-in-society, focusing on existential, transpersonal, and mind-body psychology. Prerequisites: PSYC 101, PSYC 203.
- PSYC 421 [521] APPLICATIONS OF BEHAVIORAL PRINCIPLES TO FAMILY AND CLASSROOM ENVIRONMENTS (3)** Practical application of operant techniques to child management and family functioning. Behavioral analysis, behavior modification programs, and family contracting both at school and at home, with emphasis on learning basic technical skills. Prerequisite: PSYC 211.
- PSYC 430 SYSTEMS AND TECHNIQUES OF PSYCHOTHERAPY (3)** Review and application of current theoretical approaches to the helping relationship. Prerequisites: PSYC 205 and either PSYC 230 or PSYC 361 or PSYC 460.
- PSYC 431 [531] GROUP DYNAMICS (3)** Intensive study of group interactions with emphasis upon reciprocal group influence of behavior. Prerequisite: PSYC 325 or consent of instructor.
- PSYC 432 [532] CROSS-CULTURAL PSYCHOLOGY (3)** Comparison of psychological behavior and theory in Western and Non-Western cultures. Prerequisite: PSYC 101.
- PSYC 433 GROUP PSYCHOTHERAPY INTERNSHIP (3)** Supervised experience in use of group intervention techniques. Students will counsel groups of troubled adolescents. Supervision will focus on both group and individual dynamics. Prerequisite: PSYC 431, admission to Clinical Concentration Program.
- PSYC 435 [535] INTERNSHIP IN PSYCHOLOGY (3-6)** Placement in a community service agency to familiarize students with its current practices. Supervised client contact will be provided. May be repeated for a maximum of 12 credits, but only 6 credits can apply to the major; the other 6 credits will be used as general electives. Prerequisites: 23 hours of psychology, minimum, PSYC GPA 2.80 and consent of instructor.
- PSYC 439 [539] THE INITIAL INTERVIEW (3)** Clinical observation and practicum experience. Focus on interviewer and interviewee dimensions and relationship with patients. Use of tapes, seminars, and individual supervision. Prerequisites: PSYC 205, and admission to Clinical Concentration Program.
- PSYC 447 [547] SEX DIFFERENCES; PSYCHOLOGICAL PERSPECTIVES (3)** Sex role/personality development is examined from various perspectives: social, cultural, evolutionary and biological. Changing conceptions with regard to women, their roles and self-concepts, are emphasized within the overall context of sex differences and similarities in behavior. Prerequisite: PSYC 203 or permission of instructor.
- PSYC 449 [549] PSYCHOLOGY OF LESBIAN CULTURE (3)** Impact of culture on development of a lesbian identity within a psychological framework. Prerequisites: two courses in psychology or women's studies or consent of instructor.
- PSYC 451 [551] INTRODUCTION TO THE EXCEPTIONAL CHILD (3)** Children with a typical, physical, mental, social and emotional development, including the physically handicapped, the mentally retarded, the gifted, and emotionally disturbed children. Prerequisite: PSYC 201 or PSYC 203 or PSYC 211.
- PSYC 453 [553] ISSUES IN MENTAL HEALTH INTERVENTION (1-2)** Readings, lectures and seminars relating to psychological emergencies and the modes of intervention during psychological crises. May be repeated for a maximum of 4 credits. Graded S/U. Prerequisites: PSYC 205, PSYC 454 concurrent, admission to Clinical Concentration Program.
- PSYC 454 INTERNSHIP IN PSYCHOTHERAPY (4-12)** Techniques of psychotherapeutic intervention. Students will see patients in psychotherapy under intensive supervision. Seminars and individualized readings. May be repeated for a maximum of 12 credits. Prerequisites: PSYC 453 concurrent and admission to Clinical Concentration Program.
- PSYC 457 GENDER IDENTITY IN TRANSITION (3)** Psychological consequences of changing definitions of femininity, masculinity and personhood will be examined using recent theories of gender identity formation. Concepts such as androgyny, sex-role transcendence, and future shock will be related to psychological adaptation to social change. Prerequisite: PSYC 315 or PSYC 447 or consent of instructor.
- PSYC 460 [560] ETHOLOGY AND COMPARATIVE PSYCHOLOGY (3)** A survey of the major behavioral adaptations in non-human and human species within the framework of evolutionary theory, ethology, and experimental psychology. Three hours of lecture a week. Prerequisites: PSYC 203, PSYC 211, BIOL 110, or consent of instructor.
- PSYC 461 [561] COGNITIVE PSYCHOLOGY (3)** The nature of the cognitive processes, an analysis of the organization of cognitive abilities, and problems in cognition. Theoretical viewpoints will be explored, including those of Piaget, J. P. Guilford, Ausubel, Lewin, Skinner. A comparison among theories will be made as they relate to the thinking processes. Prerequisite: PSYC 203, PSYC 211 or consent of instructor.
- PSYC 465 [565] PHYSIOLOGICAL PSYCHOLOGY (3)** An introduction to the physiological bases of behavior. The topics to be considered are basic neuroanatomy and neurophysiology, sensory and motor systems, motivational systems, and "higher order" behavioral systems. Three hours of lecture per week. Prerequisites: 9 hours of PSYC or consent of instructor; BIOL 110.
- PSYC 467 [567] MIDLIFE DEVELOPMENT (3)** A study of adult behavior between the ages of 18 and 60. The developmental stages of young adulthood, adulthood and middle age will be discussed along with topics pertinent to each of the levels such as leaving and becoming emancipated from the family; the transition and adjustment to marriage and work; and bridging the gap between ideals and actual fulfillment. Prerequisite: PSYC 203.
- PSYC 470-479 [570-579] SPECIAL TOPICS (1-3)** Survey and critical evaluation of modern literature pertaining to selected problems in psychology. May be repeated for a maximum of 12 credits provided a different topic is covered. Prerequisite: consent of instructor.
- PSYC 480 [580] SYSTEMS OF PSYCHOLOGY (3)** Schools of psychology with their theoretical and methodological approaches. Prerequisites: at least a junior Psychology major and consent of instructor.
- PSYC 486 ADVANCED EXPERIMENTAL DESIGN (3)** Design and analysis, analysis of variance (completely randomized designs, repeated measurement designs, etc.). Multiple comparisons, nonparametrics, general problems related to sampling, experimenter effects, etc. Honors approval or consent of instructor. Prerequisite: PSYC 212.
- PSYC 491 [591] INDEPENDENT INVESTIGATION IN PSYCHOLOGY (3)** An opportunity for especially qualified students to undertake research problems according to their interest and training under the direction of a staff member. May be repeated for a maximum of 12 credits, but only 6 credits can apply to the major; the other 6 credits will be used as general electives. Prerequisites: PSYC 314 and consent of instructor.
- PSYC 499 SENIOR THESIS IN PSYCHOLOGY (4)** Independent research on special problems in psychology or closely related fields. Prerequisites: PSYC 314, PSYC 485, Honors approval.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

RUSSIAN (RUSS)

Lower Division

RUSS 101-102 RUSSIAN ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation, elementary conversation; composition and translation. GenEd II.C.1.

RUSS 201-202 RUSSIAN INTERMEDIATE I, II (3, 3) Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisites: RUSS 101-102 or equivalent. GenEd II.C.3.

SECONDARY EDUCATION (SCED)**Upper Division****SCED 301 FIELD EXPERIENCES IN SECONDARY EDUCATION (3)**

Experiences in observing and studying school activities directly related to classroom instruction and pupil learning; observing and analyzing teacher roles, student roles and instructional environment. Emphasis is placed on direct experience in a variety of school settings. Prerequisite: PSYC 201.

SCED 319 SURVEY OF EDUCATIONAL PROGRAMS (3) Combines theoretical aspects of FLED 311, The Child in the Elementary School Curriculum, and SCED 341, Principles of Secondary Education. A field experience to schools is required. Open only to those students in art, dance, music, physical education, health, or media specialists whose majors lead directly to certification in elementary and secondary education. Prerequisite: PSYC 201 or concurrently, and written permission, chair, Department of Secondary Education.

SCED 341 PRINCIPLES OF SECONDARY EDUCATION (4) Philosophy and purposes of secondary education; nature of secondary education programs; principles of teaching and learning; basic techniques in instruction. A field experience to schools is required and will necessitate travel time before and after class. To be taken the semester prior to the methods course. Students in approved certification programs leading to the bachelor's degree must enroll for 4 credits. Prerequisites: junior standing, PSYC 201 (or taken concurrently), taken concurrently w/ SCED 460, and written permission of the chair of secondary education. (Methods courses in each subject are not necessarily offered every semester. It is the responsibility of students to meet with their secondary education adviser to determine when they will take the teaching methods course.)

SCED 353 TEACHING MODERN FOREIGN LANGUAGE IN THE SECONDARY SCHOOL (3) Aims and purposes of foreign language instruction; current curricular trends, including the importance of modern language teaching practices. Open only to seniors who plan to teach foreign language, with consent of instructor. Prerequisites: 2.50 GPA in major field, SCED 341, and written permission from chair, secondary education.

SCED 355 TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL (3) Objectives, curriculum, materials, and instructional procedures in the teaching of social studies. Open only to seniors immediately prior to student teaching and to others with equivalent backgrounds and objectives. Prerequisites: 2.50 GPA in major field; SCED 341, SCED 460, and written permission from chair, secondary education.

SCED 357 TEACHING ENGLISH IN THE SECONDARY SCHOOL (3) Language arts as taught in secondary schools. Open only to seniors immediately prior to student teaching and to others with equivalent backgrounds and objectives with consent of instructor. Prerequisites: 2.50 GPA in major field; SCED 341, SCED 460, and written permission from chair, secondary education.

Student Teaching

The following student teaching courses provide practical experiences in observation, participation and student teaching in public school classrooms under the guidance of master teachers and a university supervisor. Prerequisites: PSYC 201, SCED 319 or SCED 341, SCED 460, ISTC 301, SPED 301 and SCED 499, an appropriate methods course, satisfactory completion of the Praxis I tests, completion of the Speech and Hearing screening, completion of QPA requirements, written permission from students' major department and the Center for Applied Skills in Education (CASE). All secondary education students and postbaccalaureate students will student teach at both the middle school and high school levels the same semester. All student teaching experiences in secondary education are graded SU.

SCED 383 STUDENT TEACHING IN SECONDARY EDUCATION — ENGLISH (12)

SCED 384 STUDENT TEACHING IN SECONDARY EDUCATION — FRENCH (12)

SCED 385 STUDENT TEACHING IN SECONDARY EDUCATION — GEOGRAPHY (12)

SCED 386 STUDENT TEACHING IN SECONDARY EDUCATION — GERMAN (12)

SCED 389 STUDENT TEACHING IN SECONDARY EDUCATION — HISTORY (12)

SCED 394 STUDENT TEACHING IN SECONDARY EDUCATION — SPANISH (12)

SCED 396 STUDENT TEACHING IN SECONDARY EDUCATION — SOCIAL SCIENCE (12)

SCED 399 DIFFERENTIATED STUDENT TEACHING —

SECONDARY (1-8) Student teaching experiences in addition to those listed above or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: consent of chair, secondary education, written permission, Center for Applied Skills in Education (CASE).

SCED 401 ANALYZING STUDENT TEACHING (3) Analysis of and development of solutions for problems in pupil behavior, curriculum, evaluation and instructional procedures. Secondary teaching philosophies and strategies based upon identified needs determined as a result of the student teaching experience will be explored in depth. Open to students concurrent with or following student teaching.

SCED 419 [518] YOUNG ADULT LITERATURE (3) Examination of literature as an expression of basic needs and ideas of youth through wide independent reading; studying criteria and aids for selection of books and other media; evaluating in terms of forces affecting society and the adolescent.

SCED 458 [558] USING WRITING AS A LEARNING TOOL IN THE SECONDARY SCHOOL (3) Strategies for using writing to learn content in all disciplines; examination of the writing process — diagnosis, pre-writing, drafting, revision, evaluation, and publication. Prerequisite: SCED 341 or SCED 319 or consent of instructor.

SCED 460 [560] USING READING AND WRITING IN THE SECONDARY SCHOOLS (4) Developmental reading and writing assessment; vocabulary building, comprehension; special needs adaptations; clinical practice. Prerequisites: SCED 341 or concurrently.

SCED 461 [561] TEACHING READING IN THE SECONDARY CONTENT AREAS (3) Application and assessment of reading strategies and instructional frameworks in secondary content classrooms. Prerequisite: SCED 460 and currently teaching or student teaching.

SCED 463 [563] DEVELOPMENTAL READING FOR THE EARLY ADOLESCENT (3) Methods of designing and teaching developmental reading programs for the middle or junior high school student. Attention to the following: providing for individual differences, teaching students to read critically, developing and extending reading interests. Prerequisite: SCED 460 or equivalent reading methods course.

SCED 470-489 [570-589] SPECIAL TOPICS IN SECONDARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in secondary or adult education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. May be repeated for credit provided a different topic is covered.

SCED 494 [594] TRAVEL AND STUDY IN SECONDARY EDUCATION (1-6) Study abroad of educational facilities, programs or practices, or selected projects in education topics. By special arrangement with program chair and sponsoring instructors.

SCED 495 [595] INDEPENDENT STUDY IN EDUCATION: SECONDARY (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: consent of chair of secondary education.

SCED 496 [596] DIRECTED READINGS IN SECONDARY EDUCATION (1-4) Independent reading in selected areas of Secondary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the department to qualified students. Prerequisite: consent of chair of Secondary Education.

SCED 499 INTERNSHIP IN SECONDARY EDUCATION (3) Clinical experience in a professional development school the semester immediately prior to student teaching; focus on classroom management and discipline, technology utilization and reflective practices. Prerequisite: written permission of chair of secondary education.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

SCIENCE EDUCATION (SCIE)**Upper Division**

SCIE 371 [551] TEACHING SCIENCE IN EARLY CHILDHOOD (2) Familiarizes students with appropriate methods and materials in science for the young child. Emphasis will be on interdisciplinary approach. Prerequisite: ECED 341 or concurrently.

SCIE 376 [576] TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3) Application, analysis and integration of science teaching skills in the elementary classroom. Field experience in local schools. Taken concurrently with BIOL 303 and PHSC 303.

SCIE 380 [580] TEACHING SCIENCE IN THE SECONDARY SCHOOL (3) Selection of appropriate content, methods and evaluation techniques, analysis of textbooks and resource materials for teaching science in the middle and high schools. Must be taken the semester prior to student teaching.

SCIE 393 STUDENT TEACHING IN SECONDARY EDUCATION-SCIENCE (12)

SCIE 421 FIELD COURSE IN SECONDARY SCIENCE TEACHING METHODS (2) Analysis and evaluation of current materials and techniques in secondary science teaching. To be taken concurrently with student teaching at off-campus center. Prerequisite: SCIE 380; students must be student teaching.

SCIE 470-475 [570-575] SEQUENTIAL SCIENCE MODULES FOR THE ELEMENTARY SCHOOL TEACHER I-VI (1, 2, or 3) Three different modules of science instruction will be offered each semester for teachers of primary and intermediate grades. Emphasizes instructional strategies in both the processes and content of the science. Students may elect to take 1, 2, or all 3 modules for 1, 2, or 3 credit hours, respectively. All students must attend the first class meeting for course orientation. Thereafter, each module will meet once a week for four weeks. Each meeting will consist of approximately four hours laboratory work. Prerequisite: teaching experience in the elementary schools.

SOCIOLOGY (SOCI)

Lower Division

SOCI 100 USING INFORMATION EFFECTIVELY IN THE SOCIAL SCIENCES (3) Obtaining, evaluating, and presenting social science critical-thinking problems of inference, search, and analysis skills using computerized databases, statistical software, and communication skills. Recommended for students majoring in social or behavioral sciences. Not open to those who successfully completed IDLA 101. GenEd I.B.

SOCI 101 INTRODUCTION TO SOCIOLOGY (3) Sociological concepts, theories, methods; a study of society and culture; the influence of the social environment on individual behavior. GenEd II.B.2.

SOCI 102 HONORS INTRODUCTION TO SOCIOLOGY (3) Sociological concepts, theories, methods; a study of society and culture; the influence of the social environment on individual behavior. Honors College course. Special permit only. GenEd II.B.2.

SOCI 197 HONORS SEMINAR IN COMMUNITY POWER ANALYSIS (3) A multi-disciplinary investigation in applied social science of the major components necessary to successful metropolitan problem solving. Honors College course. Special permit only.

SOCI 210 SOCIOLOGY OF SPORT (3) Critical examination of the role of sport in society. Course material will transcend prevalent stereotypes and myths of sport and analyze significant realities of the culture, social and corporate organization, major social processes, and relations of class, race and gender in contemporary society. GenEd II.B.3.

SOCI 241 BLACKS IN AMERICA: MYTHS AND REALITY (3) Prevailing myths regarding black society, development of such myths, and the reality which contradicts them. GenEd II.C.3.

SOCI 243 SOCIOLOGY OF RACE, CLASS AND GENDER (3) Traditional and contemporary sociological approaches to the nature and interrelationship of race, class and gender inequalities. Prerequisite: SOCI 101 or consent of instructor.

Upper Division

SOCI 300 SOCIOLOGICAL ANALYSIS (3) Sociological perspectives, data, and techniques needed to identify and interpret social and cultural patterns. Develops computer and writing skills. Prerequisites: SOCI 101, ENGL 102 or ENGL 190, or consent of instructor. GenEd I.D.

SOCI 301 THE FAMILY (3) The family as the basic group in human societies; its development; its relation to other social institutions; the family in modern industrial societies. Prerequisite: SOCI 101.

SOCI 307 ISSUES IN DOMESTIC VIOLENCE (3) Identification, treatment and prevention of home-based abuse or violence focusing on children, spouses/partners and elders. Prerequisite: SOCI 101.

SOCI 309 ISSUES IN CAMPUS VIOLENCE (3) Micro level examination of issues of crime and violence, including prevention, treatment and punishment on the college campus. Prerequisite: SOCI 101.

SOCI 311 [511] INDIVIDUAL AND SOCIETY (3) A social psychological approach to the inter-relationships of the individual and his/her social and cultural environment; behavioral characteristics resulting from social experience. Prerequisite: SOCI 101.

SOCI 313 INTRODUCTION TO SOCIAL PSYCHOLOGY (3) A general introduction to the inter-relationships between social organization and

individual human behavior. Examination of social factors in the emergence of consciousness, self, personality and interpersonal relations. Prerequisite: SOCI 101.

SOCI 320 MILITARY SOCIOLOGY (3) Examination of social concerns related to maintaining a large standing military force with volunteers. Issues of race and gender, with questions of military service as an obligation and continuance of civilian control will be addressed. Prerequisite: SOCI 101.

SOCI 323 [523] SOCIAL CHANGE (3) A sociological analysis of the sources, processes, and consequences of social change. Prerequisite: SOCI 101.

SOCI 325 [525] CROWDS, MOBS AND RIOTS (3) Study of unorganized and organized groups and their impact on society: crowds, mobs, riots, and other processes of disruptive and constructive change. Prerequisite: SOCI 101.

SOCI 327 [527] URBAN SOCIOLOGY (3) Survey of the theoretical and sociological conceptualizations of modern western industrial cities. Prerequisite: SOCI 101.

SOCI 329 [529] DEMOGRAPHY (3) Social, economic and political problems related to changes, distribution and movement of population; analysis of contemporary population trends in the United States and the world. Prerequisite: SOCI 101.

SOCI 331 [531] DEVIANCE AND ORGANIZATIONS (3) Major social patterns associated with contemporary large scale organizations, with special emphasis on deviance by and within corporations, governments and crime syndicates. Prerequisite: SOCI 101.

SOCI 333 [533] POLITICAL SOCIOLOGY (3) Contemporary relevance of the fundamental ideas regarding the relationship of the social and political systems; the significance of social and political democratization; class struggles and revolution; the influence of government bureaucracy. Prerequisite: SOCI 101.

SOCI 335 [535] MEDICAL SOCIOLOGY (3) A study of social and cultural perspectives on illness; demographic trends; the health professions; institutions for the delivery of health care services. Prerequisite: SOCI 101.

SOCI 341 [541] CLASS, STATUS AND POWER (3) An examination of major theories and significant research on socially structured inequality in modern and traditional societies. Prerequisite: SOCI 101.

SOCI 343 [543] MINORITY GROUPS (3) An examination of inter-group life as an aspect of society; conflicts between races, ethnic groups, and minorities; prejudice, segregation and integration. Prerequisite: SOCI 101.

SOCI 348 WOMEN AND CRIME (3) Women as offenders, victims and workers in the criminal justice system. Theories of female criminality. Discrimination and sexism in juvenile and adult systems. Prerequisite: SOCI 101.

SOCI 349 SOCIAL PROBLEMS (3) Theoretical and empirical understanding of the sociological approach to contemporary social problems, such as alcoholism, drug abuse, rape, homophobia, sexism, racism, poverty, family disorganization, violence. Prerequisite: SOCI 101.

SOCI 351 [551] DEVIANT BEHAVIOR (3) Deviance as a process in society. Understanding conformity and deviance, identification and labeling of deviants, society's response to deviant behavior. Prerequisite: SOCI 101.

SOCI 352 COMMUNITY CORRECTIONS (3) Probation and intermediate sanctions of boot camp, electronic monitoring, house arrest/detention. Casework management and sentencing. Parole and diversion programs. Prerequisite: SOCI 101.

SOCI 353 [553] THEORIES OF CRIME (3) Evolution of criminological theory; crime rates and trends; social profile of criminal offenders and victims; societal responses. Prerequisite: SOCI 101.

SOCI 354 [554] INTRODUCTION TO CRIMINAL JUSTICE (3) The history, the present structure, the functions, and the contemporary problems of the police, prosecution, courts, corrections, probation and parole. In addition, a brief introduction to law as an element of social control will be given. Prerequisite: SOCI 101.

SOCI 355 [555] DELINQUENCY AND JUVENILE JUSTICE (3) Nature, distribution and causes of youth crime; youth gangs; the juvenile justice system. Prerequisite: SOCI 101.

SOCI 356 [556] PRISONS IN AMERICA (3) Purposes of punishment, incarceration and death penalty; inmate subculture; administration and staff issues. Prerequisites: SOCI 101, SOCI 353 or SOCI 354 or SOCI 355.

SOCI 357 [557] SOCIAL WELFARE (3) Sociological analysis of social welfare institutions and the functions they perform within modern societies. Prerequisite: SOCI 101.

- SOCI 358 INTERPERSONAL VIOLENCE (3)** Face-to-face violent crime; perpetrators and victims; strategies for response. Prerequisites: SOCI 101, SOCI 351 or 353.
- SOCI 359 [559] SOCIAL GERONTOLOGY (3)** Examination of social factors in aging in later life and responses to aging; evaluation of research in social gerontology. Prerequisite: SOCI 101.
- SOCI 367 [558] SOCIOLOGY OF DEATH, DYING AND BEREAVEMENT (3)** Examination of present social considerations of death, including demographic, attitudinal and ritualistic variables; death education through the life cycle; structure of the grief process; impact of terminal illness on the patient and the family; ethical issues surrounding euthanasia, and suicide. Prerequisite: SOCI 101.
- SOCI 370-379 [560-569] TOPICS IN SOCIOLOGY (3)** Current topics in sociology designed for non-majors as well as majors. May be repeated for credit provided a different topic is covered. Prerequisite: SOCI 101.
- SOCI 381 [581] SOCIOLOGICAL THEORY (3)** Major systems of sociological theory; the works, assumptions and implications of major European and American schools. Prerequisites: junior standing; SOCI 101; 9 additional hours of sociology.
- SOCI 383 SOCIOLOGY OF LAW (3)** Legal norms and institutions in relation to society; role of law in social processes, such as conflict and cooperation. Prerequisite: SOCI 101.
- SOCI 385 POLICE ADMINISTRATION (3)** Law enforcement and organization structure; management of departments, including deployment, recruitment, training, specialization, budget, and research. Prerequisite: SOCI 101.
- SOCI 387 ISSUES IN POLICING (3)** Individual and system-related problems facing police personnel. Prerequisite: SOCI 101.
- SOCI 391 [582] RESEARCH METHODS (3)** A consideration of methodology of sociological research; the various steps in conducting research projects, from statement of the problem to final analysis of data. Prerequisites: SOCI 101; 9 additional hours of SOCI; either PSYC 212 or MATH 231.
- SOCI 470-479 [570-579] SPECIAL TOPICS IN SOCIOLOGY (3)** An examination of current topics in sociology designed for junior and senior majors. May be repeated for credit provided a different topic is covered. Prerequisites: SOCI 101 and 6 additional hours of sociology.
- SOCI 485 [585] SEMINAR IN SOCIOLOGY (3)** Capstone application of ideas, methods and facts learned in previous sociology courses. Prerequisites: SOCI 101, three upper-level SOCI courses, and senior standing or permission of instructor.
- SOCI 491-492 [591-592] INTERNSHIP IN SOCIOLOGY I, II (3, 3)** Supervised experience in work setting which facilitates understanding of roles and relationships relevant to sociological inquiry and application of sociological knowledge. Students may elect to take one semester for 3 credits (491) or two semesters for 3 credits each (491-492), in one agency both semesters or in a different agency each semester. No more than 3 credits may be earned in a semester without consent of the chair, which will be granted only when agency requirements and student needs make it appropriate. Prerequisite: SOCI major; junior standing and consent of internship coordinator.
- SOCI 495 [595] INDEPENDENT RESEARCH (3)** Supervised research and sociological investigation involving library and/or field experiences, and culminating in a written report. May be repeated for a maximum of 6 credits. Prerequisites: SOCI 381 and SOCI 391 and consent of instructor.
- SOCI 497 SEMINAR IN SOCIOLOGY (Honors) (3)** Exploring and analyzing major areas of sociology. Prerequisite: consent of the Honors coordinator.
- SOCI 498 READINGS IN SOCIOLOGY (Honors) (4)** A survey of the relevant scholarly literature under the guidance of a staff member who will direct students' research. Prerequisite: consent of the Honors coordinator.
- SOCI 499 HONORS THESIS (4)** Supervised research and sociological investigation involving library and/or field experience and culminating in a written report. Prerequisite: consent of the Honors coordinator.

SPANISH (SPAN)

Lower Division

- SPAN 101-102 SPANISH ELEMENTS I, II (3, 3)** A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation. GenEd II.C.1.
- SPAN 201-202 SPANISH INTERMEDIATE I, II (3, 3)** Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings commensurate with the ability of the individual student. Conducted in Spanish. Prerequisites: SPAN 101-102 or equivalent. GenEd II.C.3.

Upper Division

- SPAN 301-302 COMPOSITION AND CONVERSATION I, II (3, 3)** Composition and conversation beyond intermediate level. Conducted in Spanish. Prerequisites: SPAN 201-202 or equivalent. GenEd II.C.3.
- SPAN 305 READINGS IN SPANISH (3)** Improves reading and comprehension skills in Spanish, while exposing students to introductory Spanish literature. Prerequisite: SPAN 202 or equivalent or consent of instructor.
- SPAN 306 SPANISH PHONETICS (3)** Analysis and laboratory drills of standard Latin-American pronunciation with some attention to Castilian. Conducted in Spanish. Not open to native speakers of Spanish. Prerequisites: SPAN 301-302 or equivalent.
- SPAN 311 CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES I (3)** Value-system and way of life as embodied in the language, history, arts and customs of Spain. Conducted in Spanish. Prerequisites: SPAN 301-302 or equivalent.
- SPAN 312 CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES II (3)** Value-system and way of life as embodied in the language, history, arts and customs of Ibero-America. Prerequisites: SPAN 301-302 or equivalent.
- SPAN 321-322 SURVEY OF SPANISH LITERATURE I, II (3, 3)** Spanish and Spanish-American literature, with collateral readings. Conducted in Spanish. Prerequisites: SPAN 301-302 or equivalent.
- SPAN 331 SPANISH FOR BUSINESS (3)** The fundamentals of commercial correspondence in Spanish. Focuses on the form and style of Spanish currently used in a business environment. Intensive practice in speaking, writing and translating. Prerequisites: SPAN 201-202 or equivalent or consent of instructor.
- SPAN 370-379 SPECIAL TOPICS IN SPANISH (3-6)** Specialized topics in language and culture. Content varies. May be repeated once for credit provided a different topic is covered. Prerequisite: SPAN 202 or equivalent.
- SPAN 391 ADVANCED SPANISH GRAMMAR (3)** Spanish syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Conducted in Spanish. Prerequisites: SPAN 301-302.
- SPAN 402 [502] SPANISH LINGUISTICS (3)** The linguistic structure of the Spanish language with an introduction to transformational grammar. Prerequisites: SPAN 301-302 or equivalent.
- SPAN 411 [511] 19TH-CENTURY SPANISH NOVEL (3)** Emphasis will be given to Benito Perez Galdos and Pio Baaraja. Conducted in Spanish. Prerequisites: SPAN 321-322.
- SPAN 412 [512] CONTEMPORARY SPANISH NOVEL (3)** Emphasis on such writers as Cela, Sender, Delibes and Goytisolo. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent.
- SPAN 417 [517] THE GOLDEN AGE IN SPANISH LITERATURE I (3)** Principal attention to Cervantes, Tirso de Molina, Lope de Vega and Ruiz de Alarcon. Conducted in Spanish. Prerequisites: SPAN 321-322.
- SPAN 431 [531] 19TH-CENTURY SPANISH LITERATURE (3)** The main literary movement of the century: neoclassicism, romanticism, realism, naturalism and special emphasis on "costumbrismo." Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent.
- SPAN 439 LITERARY MOVEMENTS IN THE SPANISH-AMERICAN LITERATURE (3)** Characteristics of the literary movements in Spanish America through the most representative short stories of every period. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent.
- SPAN 444 [544] 20TH CENTURY SPANISH-AMERICAN LITERATURE II (3)** The Contemporary Period. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent.
- SPAN 452 [552] CONTEMPORARY SPANISH POETRY (3)** Emphasis on the poets of the generation of 1927; Pablo Neruda and Vicente Aleixandre. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent.
- SPAN 462 [562] CONTEMPORARY SPANISH DRAMA (3)** Emphasis on playwrights such as Casona, Sastre and Buero Vallejo. Conducted in Spanish. Prerequisites: SPAN 321-322 or equivalent.
- SPAN 470-479 [570-579] SPECIAL TOPICS IN SPANISH (3)** Discussion of a central topic with changing emphasis from year to year. May be repeated for credit provided a different topic is covered. Prerequisites: SPAN 321-322 or the equivalent.
- SPAN 481 [581] SPANISH SHORT STORIES (3)** Short stories from Spain with emphasis on 20th-century authors. Conducted in Spanish. Prerequisite: SPAN 321-322 or equivalent.
- SPAN 491 [591] DIRECTED READINGS IN SPANISH LITERATURE (1-3)** Reserved for superior students under the guidance of a departmental adviser. For junior or senior majors only. Conducted in Spanish. Prerequisites: at least three hours of literature study at the 400 level, consent of department chair.

SPAN 492 [592] DIRECTED READINGS IN SPANISH (1-3) Similar to Spanish 491 with concentration on a different subject matter. Conducted in Spanish. Junior or senior majors only. Prerequisites: at least three hours of literature study at the 400 level, consent of department chair.

SPAN 494 TRAVEL STUDY ABROAD (3-16) A study of the main features of Hispanic culture and civilization. Cities and topics to be selected. For complete information contact the chair of the department. Prerequisite: consent of instructor.

SPAN 495 INTERNSHIP FOR PROFICIENCY IN SPANISH (3) Supervised experience in a work setting providing students the opportunity to apply their classroom learning and skills outside the academic world. Will be one semester (fall or spring) for which students receive 3 credits for eight hours of work per week. Junior or senior undergraduate students in good academic standing who meet the requirements established for the Proficiency in Spanish (completion of 9 credit hours of required courses) can apply for the internship during the month of November for the spring semester and during the month of April for the fall semester. Prerequisites: open only to students who are enrolled in the Proficiency Program in Spanish who have complied with the program regulations. Written consent of coordinator of the program.

SPAN 497 INTERNSHIP IN SPANISH (3) Gives training and experience using Spanish in working with government, business, and industry in Maryland or Washington, D.C. under professional supervision. Prerequisites: junior or senior standing Spanish majors (professional track) only, and completion of at least 27 credits above 300-level courses. Written consent of coordinator of program.

SPECIAL EDUCATION (SPED)

Upper Division

SPED 301 INTRODUCTION TO SPECIAL EDUCATION: K-12 (3) Historical, philosophical, legal foundations of special education as related to current issues and practices in educational settings. Field experience required. Prerequisite: PSYC 201 or consent of instructor.

SPED 401 CURRICULUM/METHODS OF INCLUSION (3) Designing and implementing inclusive programs. Prerequisite: SPED 301.

SPED 413 ASSISTIVE TECHNOLOGY FOR STUDENTS WITH DISABILITIES K-12 (3) Designing instruction for students with disabilities using assistive and instructional technology. Prerequisites: SPED 301 and ISTC 201 or equivalent.

SPED 415 ASSESSMENT OF INFANT/PRIMARY STUDENTS WITH DISABILITIES (3) Comprehensive assessment of young children, linking evaluative information to inclusive programming.

SPED 417 COLLABORATIVE PLANNING FOR INFANT/PRIMARY PROGRAMS (3) Methods and models of interdisciplinary collaborative planning for young children with disabilities. Prerequisite: SPED 301.

SPED 425 [525] FORMAL TESTS AND MEASUREMENTS FOR STUDENTS WITH DISABILITIES (K-12) (3) Assessment techniques; philosophical rationale; current research; intervention strategies. Prerequisites: 6 credits PSYC; 9 credits SPED or consent of instructor.

SPED 427 [527] CURRICULUM/METHODS OF SOCIAL EMOTIONAL AND MOTOR DEVELOPMENT FOR STUDENTS WITH DISABILITIES K-12 (3) Curriculum theory: research, instructional techniques for students with disabilities. Prerequisites: 6 credits SPED or consent of instructor.

SPED 428 WORKING WITH FAMILIES OF STUDENTS WITH DISABILITIES (3) Communication skills, human relations; parent counseling and conferencing. Prerequisites: SPED 301 and consent of SPED instructor.

SPED 429 CURRICULUM/METHODS OF CLASSROOM MANAGEMENT FOR STUDENTS WITH DISABILITIES (3) Theoretical foundations; development of practical interventions. Prerequisites: SPED 301 and consent of SPED instructor.

SPED 430 INFORMAL TESTS AND MEASUREMENTS FOR STUDENTS WITH DISABILITIES (K-12) (3) Assessment, diagnosis, prescriptive techniques; procedures, administration, interpretation, programming. Prerequisites: SPED 301 and consent of SPED instructor.

SPED 431 [531] CURRICULUM AND METHODS OF READING FOR PRIMARY STUDENTS WITH DISABILITIES (3) Reading practices, context, procedures, materials, and assessment for primary students with disabilities. Prerequisite: SPED 301.

SPED 441 [541] CURRICULUM/METHODS OF INSTRUCTION FOR STUDENTS WITH DISABILITIES (K-12) (3) Characteristics

affecting learning, designing educational programs. (Observations in appropriate settings and guest lecturers in specialty area.) Prerequisites: 6 credits in PSYC and 6 credits in education.

SPED 453 CURRICULUM AND METHODS OF SECONDARY SPECIAL EDUCATION: PREVOCATIONAL AND VOCATIONAL INSTRUCTION (3) Issues and trends, including transitional-related instruction, postsecondary programs, and adaptability in secondary classrooms. Prerequisites: SPED 301 or consent of the instructor.

SPED 455 ASSESSMENT OF MIDDLE AND HIGH SCHOOL STUDENTS WITH DISABILITIES (3) Diagnosis and prescriptive techniques used by secondary level special education professionals. Prerequisite: SPED 301.

SPED 470-479 SPECIAL TOPICS IN SPECIAL EDUCATION (1-3) In-depth study of a selected topic in special education. The specific requirements and prerequisites will vary with each topic and will be designed by the department each time a topic is scheduled. May be repeated for a maximum of 6 credits.

SPED 491 INTERNSHIP: STUDENTS WITH DISABILITIES IN ELEMENTARY/MIDDLE GRADES (3) Supervised clinical field experience with elementary/middle school students with disabilities. Prerequisites: 12 credits SPED and consent of the program director.

SPED 497 INTERNSHIP: STUDENTS WITH DISABILITIES IN INFANT/PRIMARY PROGRAMS (3) Supervised clinical field experience with young children with disabilities. Prerequisites: 12 credits SPED and consent of the program director.

SPED 498 STUDENT TEACHING: SPECIAL EDUCATION (3-12) Placement in special education classroom either public or private at the age/grade appropriate for students' programs. Prerequisites: 18 credits SPED and consent of the program director.

Graduate Division

Special TU *Graduate Catalog* for course descriptions.

COMMUNICATION SCIENCES AND DISORDERS (SPPA)

Lower Division

SPPA 105 SPEECH AND LANGUAGE DEVELOPMENT (3) Analysis of normal speech and language development, including the phonetic, semantic and syntactic elements. Physiology of speech and language learning.

SPPA 200 ANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VOCAL MECHANISM (3) Anatomical structures involved in the communication processes of speech, language and hearing. Analysis of the functioning of these structures. Lectures and laboratory sessions will be required. Prerequisite: SPPA 105 and/or consent of department.

SPPA 205 BASIC SIGN LANGUAGE (3) Introduction to sign language with emphasis on basic vocabulary acquisition and awareness of hearing impairment. Focus on skill development in signed English, maintaining grammatical and conceptual accuracy. Participation and demonstration required. GenEd II.B.3.

SPPA 206 AMERICAN SIGN LANGUAGE I (3) Emphasizes receptive and expressive conversational skills in ASL. Class will be conducted in a silent classroom (no voices allowed). Non-verbal communication skills and basic interpretive practice will be provided. Prerequisite: SPPA 205 and/or consent of instructor.

SPPA 210 PHONETICS OF AMERICAN ENGLISH (3) Analysis of speech sounds of American English and the use of phonetic symbols to record them. Emphasizes ear training, phonetic transcription and language recordings.

Upper Division

SPPA 302 SPEECH AND LANGUAGE PATHOLOGY I: PHONOLOGY (3) Theories of phonological development and clinical appreciation of current linguistic analysis techniques in description of articulation and other phonological disorders. Standardized testing procedures and treatment program development. Prerequisites: SPPA 313, major status, and/or consent of department.

SPPA 303 HEARING SCIENCE (3) Introduction to study of acoustics and psychoacoustics. Utilization of models and instrumentation. Prerequisite: SPPA 105 and/or consent of department.

SPPA 304 SPEECH AND LANGUAGE PATHOLOGY II: LANGUAGE (3) Interaction of normal language development and language disorders including psycholinguistics, semantic development, information processing, and auditory memory. Prerequisites: SPPA 313, major status, and/or consent of department.

- SPPA 306 SPEECH AND LANGUAGE PATHOLOGY III: ORGANIC DISORDERS (3)** Etiology, differential diagnosis, and therapeutic management in the area of organic and functional voice problems, cleft lip and palate, adult aphasia, cerebral palsy and mental retardation. Prerequisites: SPPA 302, SPPA 304 and/or consent of department.
- SPPA 307 AMERICAN SIGN LANGUAGE II (3)** Continued skill development in expressive and receptive ASL begun in ASL I. Prerequisites: SPPA 205, 206 and/or consent of department.
- SPPA 311 AUDITION, SCIENCE AND SOCIAL IMPACT (3)** An orientation to the lives of people with both hearing and vision loss. Includes methods for communicating, techniques for guiding, and information on assistive technology. Prerequisites: SPPA 205, SPPA 345.
- SPPA 313 LANGUAGE AND SPEECH SCIENCE (3)** Biological, linguistic, and acoustic aspects of language and speech processes. Strategies for scientific study of language and speech including age, gender and cultural variables. Prerequisites: SPPA 210, 303 and/or consent of the department.
- SPPA 321 INTRODUCTION TO AUDIOLOGY (3)** Anatomy, physiology, and pathologies of the hearing mechanism. Instrumentation and techniques for the identification and management of hearing disorders inclusive of pure-tone and speech audiometrics and screening methods. Prerequisites: SPPA 303, major status and/or consent of department.
- SPPA 325 [525] INTRODUCTION TO AURAL REHABILITATION (3)** Information on options available for managing children and adults who are deaf or hard of hearing. Early intervention, communication strategies, amplification options and psychosocial issues. Prerequisite: SPPA 321 and/or consent of department.
- SPPA 341 CLINICAL AUDIOLOGY (3)** Basic audiometry; audiogram interpretation; basic principles of audiologic habilitation, including school hearing conservation. Prerequisite: SPPA 321 and/or consent of department.
- SPPA 345[545] PSYCHOSOCIAL ASPECTS OF DEAFNESS (3)** The educational, legal, philosophical and political influences that affect the lives of people who are deaf or hard of hearing. The impact of prelingual and postlingual deafness on an individual's social and psychological functioning will be discussed. Prerequisite: major status and/or consent of department.
- SPPA 416 CLINICAL OBSERVATIONS AND TECHNIQUES (3)** Methods and materials in clinical practice. Planning and implementation of treatment protocols. 25 hours of supervised observation in a variety of clinical settings. Prerequisites: SPPA 302, 304, 321 and/or consent of department.
- SPPA 417 TECHNICAL WRITING IN THE CLINICAL PROCESS (3)** Develops writing skills in disciplines of speech-language pathology and audiology. Prerequisites: ENGL 102 or ENGL 190; SPPA 416. May be taken concurrently with SPPA 487. Gen Ed I.D.
- SPPA 470-479 SPECIAL TOPICS SEMINAR IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3)** Investigation of particular topics in the fields of speech and language pathology and audiology. The topic will vary each semester the course is offered. May be repeated for credit provided a different topic is covered. Prerequisite: varies with topic.
- SPPA 487 CLINICAL INTERNSHIP I (3)** Clinical practice in therapeutic procedures with various types of speech, language and/or hearing disorders in the Towson University Speech/Language/Hearing Clinic. Students must attend weekly class. Prerequisites: Minimum 3.00 GPA in prerequisite major courses, 25 documented hours of observation, SPPA 416, completed communication screening, or consent of department. May be taken concurrently with SPPA 417.
- SPPA 496 INDEPENDENT STUDY IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (1-4)** Independent study in selected areas of speech-language pathology and audiology. May be repeated for a maximum of 6 credits. Prerequisites: junior/senior status, faculty/mentor agreement and/or consent of department.
- SPPA 497 DIRECTED READINGS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (1-4)** Directed readings in selected areas of speech pathology and audiology. May be repeated for a maximum of 6 credits. Prerequisites: junior/senior status, faculty/mentor agreement and/or consent of department.
- SPPA 498 PROCTORING IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3)** Students serve as teaching apprentices or proctors in a course which they have already completed in the department. May be repeated for a maximum of 6 credits. Prerequisites: Grade equivalent of 3.00 QPA or higher in course for which students will proctor and/or consent of the department.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

THEATRE ARTS (THEA)

Lower Division

- THEA 101 ACTING I (3)** Development of imagination through improvisation, exercises and simple scenes. GenEd I.E.
- THEA 102 HONORS ACTING I (3)** Development of imagination through improvisation, exercises and simple scenes. Prerequisite: admission to the Honors College. GenEd I.E.
- THEA 103 INTRODUCTION TO AMERICAN THEATRE (3)** Theatrical experience through study of the various types, styles and production processes of the theatre. Theatre as a public art and its relationship to our culture. GenEd II.B.1.
- THEA 105 MOVEMENT DRILL FOR THE ACTOR I (3)** Tension release, alignment and physical characterization utilizing movement theories.
- THEA 107 PROPERTY DESIGN AND CONSTRUCTION (3)** Materials, tools and techniques for executing property design.
- THEA 111 VOICE DRILL FOR THE ACTOR I (3)** Theory and practice in vocal production, application to the freeing, development, and strengthening of the voice.
- THEA 125 SCRIPT ANALYSIS (3)** Interpretation and analysis of playscripts as the basis for public performance, from the viewpoints of audience members and practitioners. Introduction to research methods for contemporary performance, including reviews, critical interpretation, and research for production. GenEd I.B.
- THEA 142 INTRODUCTION TO THEATRE DESIGN (3)** Creative aspects of theatrical design from concept to realization. GenEd I.E.
- THEA 201 SCENIC DESIGN I (3)** Influence of acting, directing, audience and aesthetics on the development of scenic design.
- THEA 202 ACTING II (3)** Technique and practice of scene study: analyzing a script, rehearsing a scene, and playing an action. Prerequisite: THEA 101, THEA 105 and THEA 111.
- THEA 205 THEATRE GAMES (3)** Exercises in "game structures" to develop creativity, encourage work on personal acting techniques, and free the actor from mechanical stage behavior. Prerequisite: THEA 101.
- THEA 209 SOUND DESIGN (3)** Electronic and acoustic information and their relationship to theatre spaces and artistic applications.
- THEA 211 HISTORY OF THEATRE AND DRAMA I (3)** Relationship of theatre and drama to other fine arts and humanistic studies from their origins to 1600. Prerequisite: THEA 125.
- THEA 212 HISTORY OF THEATRE AND DRAMA II (3)** Relationship of theatre and drama to other fine arts and humanistic studies from 1600 to 1850. Prerequisite: THEA 125.
- THEA 213 HISTORY OF THEATRE AND DRAMA III (3)** Relationship of theatre and drama to other fine arts and humanistic studies from 1850 to present. Prerequisite: THEA 125.
- THEA 222 VOICE FOR THE ACTOR II (3)** Theory and practice of vocal production applied to period, contemporary and original texts. May be repeated for a maximum of 6 credits. Prerequisites: THEA 101, THEA 105, THEA 111 and consent of instructor.
- THEA 231 MIME AND PHYSICAL THEATRE TECHNIQUES (3)** Ensemble exercises and performance projects utilizing gestures, illusions and walks. GenEd I.E.
- THEA 238 MOVEMENT DRILL FOR THE ACTOR II (3)** Flexibility, responsiveness and variety of the physical instrument. Prerequisites: THEA 105 and DANC 371.
- THEA 241 COSTUME, DRESS AND SOCIETY: EGYPTIAN TO ELIZABETHAN (3)** Study of clothing, costume design, and construction. Lab Required. GenEd II.C.1.
- THEA 242 COSTUME, DRESS AND SOCIETY: ELIZABETHAN TO 1950 (3)** Study of clothing, costume design and construction. Lab Required. GenEd II.C.1.
- THEA 243 HONORS COSTUME DRESS AND SOCIETY: EGYPTIAN TO ELIZABETHAN (3)** Study of clothing, costume design and construction. Lab required. Prerequisite: admission to the Honors College. GenEd II.C.1.
- THEA 244 HONORS COSTUME DRESS AND SOCIETY: ELIZABETHAN TO 1950 (3)** Study of clothing, costume design and construction. Lab required. Prerequisite: admission to the Honors College. GenEd II.C.1.
- THEA 245 MAKEUP DESIGN I (3)** Theories and techniques of designing stage makeup for a variety of characters and roles.
- THEA 246 MAKEUP DESIGN II (3)** Special effects in character makeup using advanced techniques. Prerequisite: THEA 245.

- THEA 249 MASK TRADITION AND DESIGN (3)** Design, construction and cultural influence.
- THEA 251 STAGECRAFT I (3)** Production techniques, construction procedures, painting, props and lighting. Lab Required.
- THEA 255 LIGHTING DESIGN I (3)** Developing awareness of light and its application as a form of aesthetic expression. Lab Required.
- THEA 257 STAGE MANAGEMENT (3)** Theatrical production focusing on the duties and responsibilities of stage managers.
- THEA 261 ACTING FOR MUSICAL THEATRE I (3)** An introduction to the acting problems inherent in musical theatre performance. Theory and practice. The development of the actor's awareness, imagination and technique through lectures, improvisations, exercises and ensemble scenes. Prerequisite: THEA 101 or consent of instructor.
- THEA 271 SPECIAL TOPICS (3)** In-depth study of a selected area dependent upon faculty and student interest. May be repeated for a maximum of 6 credits provided a different topic is covered. Prerequisites: completion of appropriate course and department approval.
- THEA 280 EXPERIMENTAL LABORATORY THEATRE ENSEMBLE (3)** Experimental techniques, style and performance.

Upper Division

- THEA 301 TECHNIQUES OF COMEDY (3)** An introduction to the theories and uses of comedy. Varied practice in comic performance with an emphasis on material emanating from students' experiences. Prerequisites: THEA 101 and one other acting or mime course or consent of instructor.
- THEA 303 CULTURAL DIVERSITY IN CONTEMPORARY THEATRE (3)** An examination of both the construction of cultural identity and issues of cultural conflict as they are expressed in contemporary theatre. GenEd II.C.3.
- THEA 304 HONORS CULTURAL DIVERSITY IN CONTEMPORARY THEATRE (3)** An examination of both the construction of cultural identity and issues of cultural conflict as they are expressed in contemporary theatre.
- THEA 305 FEMINIST THEATRE (3)** A study of feminist theatre and theatre roles for women prior to the feminist theatre movement.
- THEA 307 THEORIES OF THEATRE (3)** Theories in acting, directing, design, and dramaturgy from the classical through the modern period. Prerequisites: ENGL 102, THEA 211, THEA 212, THEA 213, or consent of instructor. GenEd I.D.
- THEA 308 VOICE AND MOVEMENT INTEGRATION (3)** Flexibility, responsiveness and integration of vocal and physical expression. Prerequisite: THEA 202.
- THEA 309 ACTING III (6)** Character development, approaching a script, structuring a scene, relating to environment, ensemble work and audition techniques. Prerequisites: THEA 308.
- THEA 310 CATALYST THEATRE I (3)** Examination, development, rehearsal and performance of social issues occurring on college and high school campuses. Prerequisites: THEA 101 and consent of instructor.
- THEA 312 SHAKESPEARE (3)** Shakespeare reading facility, text analysis, contemporary vocabulary in scenes and monologues. Prerequisites: THEA 309 and consent of instructor.
- THEA 315 ADVANCED SCENE STUDY (1-6)** Understanding scenes with specific motivational, analytical, character or other acting problems. May be repeated for a maximum of 6 credits. Prerequisites: THEA 312.
- THEA 327 ACTING FOR THE CAMERA (3)** Development of camera acting skills and taped/directed scene study. Prerequisites: THEA 202 or consent of instructor.
- THEA 331 DIRECTING I (3)** Fundamentals of play directing through exercises, directorial play analysis, and projects in directing short scenes. Prerequisites: THEA 101 and consent of instructor.
- THEA 332 MIME AND PHYSICAL THEATRE STYLES (3)** Advanced mime technique, ensemble exercises, and performances in the Italian, Oriental, French and American styles, including community service performances. Prerequisite: THEA 231 or consent of instructor.
- THEA 335 MOVEMENT THEATRE IMPROVISATION (3)** Listening and responding to impulses within oneself and the ensemble. Prerequisite: THEA 105.
- THEA 351 STAGECRAFT II (3)** Application of new technological approaches to stage construction, rigging and organization. Prerequisite: THEA 251 or consent of instructor.
- THEA 353 COSTUME DESIGN I (3)** Research techniques and relationship of color, texture and historical period to the script and production style. GenEd I.E.
- THEA 355 LIGHTING DESIGN II (3)** Color, organization and approaches to lighting design. Lab Required. Prerequisite: THEA 255.
- THEA 361 SCENIC DESIGN II (3)** Relationship of concept, script, aesthetics and research to a production's design and style. Lab Required. Prerequisite: THEA 201.
- THEA 365 THEATRE STUDY ABROAD (9)** One semester exchange program in acting, design or theatre management at universities abroad. Prerequisites: junior/senior standing and consent of department.
- THEA 410 CATALYST THEATRE II (3)** Examination of social issues occurring on college and high school campuses and the creation, development, and performance of original scripts. Prerequisites: THEA 202 or THEA 310 and consent of instructor.
- THEA 421 DIRECTING II: THE CONTEMPORARY PLAY (3)** Preparation techniques and directorial approaches to contemporary drama. Individual directing projects of scenes from representative contemporary dramas. Prerequisite: THEA 331 or consent of instructor.
- THEA 423 ADVANCED STUDY IN MOVEMENT THEATRE (3)** Develop, prepare and perform a solo or ensemble piece. May be repeated for a maximum of 9 credits. Prerequisites: THEA 332 and THEA 335.
- THEA 425 ADVANCED STUDY IN ACTING STYLE (1-9)** Advanced work in the problems of acting plays from poetic and historic theatre. Scenes from Shakespeare, Moliere, Ibsen, Brecht, etc. will be studied and performed by students in the context of discussion and research about the playwrights' world. May be repeated for a maximum of 9 credits, with no more than 3 credits to be taken in any semester. Prerequisites: THEA 312 and consent of instructor.
- THEA 427 ADVANCED STUDY IN DIRECTING (1-9)** Independent study in preparation, rehearsal and production of special directing projects. May be repeated for a maximum of 9 credits. Prerequisites: THEA 331 and consent of instructor.
- THEA 429 ADVANCED STUDY IN THEATRE PRODUCTION (1-9)** Independent study in theatre production. May be repeated for a maximum of 9 credits. Prerequisite: consent of instructor.
- THEA 433 ADVANCED STUDY IN STAGE MANAGEMENT (1-9)** Independent study in stage management. May be repeated for a maximum of 9 credits. Prerequisites: THEA 257, THEA 331, and consent of instructor.
- THEA 443 STRUCTURAL DESIGN AND SAFETY (3)** Stress analysis, safety practices and construction techniques. Prerequisites: MATH 115, THEA 251 or consent of instructor.
- THEA 445 SCENE PAINTING (3)** Techniques for painting scenery. Lab Required. Prerequisites: THEA 201, ART 201 or consent of instructor.
- THEA 453 COSTUME DESIGN II (3)** Fabric selection, budget preparation, pattern choices, resumes and portfolios. Prerequisite: THEA 353.
- THEA 463 PERIOD STYLE FOR DESIGN (3)** Historical periods and styles and their relationship to the visual arts, literature and society. Prerequisite: consent of instructor.
- THEA 480 [580] ADVANCED STUDY IN THEATRE DESIGN (1-9)** Independent study in costume, scenery or lighting design. May be repeated for a maximum of 9 credits. Prerequisite: consent of instructor.
- THEA 487 PROFESSIONAL THEATRE SEMINAR (1-12)** A semester's internship in a resident theatre company. For majors only. Prerequisite: consent of department.
- THEA 488 THEATRE VISITATION AND ANALYSIS ABROAD (3)** Analysis and critique of theatre productions. Prerequisites: junior/senior standing and consent of department.
- THEA 489 SENIOR ACTING SEMINAR (3)** Auditioning techniques, unions, agents, resumes, the transition from student to professional and the realities of professional theatre. Prerequisite: THEA 309 and consent of instructor.
- THEA 493 [593] ADVANCED STUDY IN THEATRE (1-9)** Independent study of an academic or creative nature. For majors only. May be repeated for a maximum of 9 credits. Prerequisite: approval of plan of study by instructor and department chair.
- THEA 494 THEATRE PRODUCTION: CONCENTRATION IN SCENIC ELEMENTS (1)** Experience involving major responsibility in props, scenic construction and painting on a departmental production. May be repeated for up to 3 credits.
- THEA 495 THEATRE PRODUCTION: CONCENTRATION IN LIGHTING AND SOUND (1)** Experience involving major responsibility in lighting, sound, stage management and backstage crew on a departmental production. May be repeated for up to 3 credits.
- THEA 496 THEATRE PRODUCTION: CONCENTRATION IN COSTUMING (1)** Experience involving major responsibility in costuming for a departmental production. May be repeated for up to 3 credits.

THEA 499 SPECIAL PROJECT IN THEATRE RESEARCH (3) Seminar to demonstrate students' proficiency in an area agreed upon by students and their adviser. Prerequisite: Theatre major with senior standing or consent of instructor.

Graduate Division

See *TU Graduate Catalog* for course descriptions.

WOMEN'S STUDIES (WMST)

Lower Division

WMST 231 WOMEN IN PERSPECTIVE (3) An examination of the status of women and women's attempts to achieve economic, legal and social equality, and physical integrity in the past and today with an emphasis on U.S. women. The focus is on both the commonalities and the diversity of women's experience. Topics covered include marriage, motherhood, education, jobs, and sexuality with attention to race and class. GenEd II.C.3.

WMST 232 HONORS SEMINAR: WOMEN IN PERSPECTIVE (3) An examination of the status of women and women's attempts to achieve economic, legal and social equality, and physical integrity, in the past and today with an emphasis on U.S. women. The focus is on both the commonalities and the diversity of women's experience. Topics covered include marriage, motherhood, education, jobs and sexuality, with attention to race and class. Emphasis on student research into and analysis of women's political, autobiographical and fictional writings. Honors College. Special permit only. GenEd II.C.3.

WMST 233 INTERNATIONAL PERSPECTIVES OF WOMEN (3) Interdisciplinary examination of women's status and activism worldwide, including regional and local comparisons. Roles of governments and international organizations in shaping women's experiences. GenEd II.D.

WMST 234 HONORS SEMINAR: INTERNATIONAL PERSPECTIVES ON WOMEN (3) Interdisciplinary examination of women's status and activism worldwide, including regional and local comparisons. Roles of governments and international organizations in shaping women's experiences. Women's rights and movements to implement them, including grassroots activism. Emphasis on student research into and analysis of analytic essays, news, reportage, fiction and testimonial writings. GenEd II.D.

Upper Division

WMST 332 [532] WOMEN'S CULTURE AND CREATIVITY (3) Study of the historical conditions influencing women's creativity, the nature of women's aesthetic achievements, and the emergence of new female cultural and artistic traditions. Prerequisite: WMST 231 or WMST 232 or permission of instructor.

WMST 333 WOMEN'S WORDS, WOMEN'S LIVES (3) Practice in and study of expository writing about women. Readings include fiction, biographies, autobiographies, letters and journals; student writing will focus on such topics as women's roles, relationships and actions. Prerequisites: ENGL 102; one course in women's studies or one additional English course. GenEd I.D.

WMST 335 [535] WOMEN, WORK AND FAMILY (3) Women's work examined historically and cross-culturally from an interdisciplinary perspective. Women's work in traditional societies, effects of industrialization on women's work, and women's paid and unpaid work in contemporary societies. Prerequisite: 3 credits in social science or history.

WMST 336 [536] WOMEN AND MEDICINE (3) How gender has influenced the structure, content and practice of medicine in the 19th and 20th centuries, with emphasis on disease theory and treatment, physicians' involvement in social policy, and women's challenges to medical authority. Special focus on the history of nursing, women's entry into medical practice, and women's health movements past and present. Prerequisite: 3 credits in women's studies or social sciences.

WMST 337 [537] FEMINISM (3) An examination of feminism as a set of ideas and the systematic application of those ideas to achieve political, social, and economic equality. Prerequisite: 3 credits in social sciences or in women's studies or consent of instructor.

WMST 338 [538] WOMEN AND SEXUALITY (3) Examination of the politics of sexuality: the interaction between cultural definitions and evaluations of women's sexualities and women's social and legal status; and women's attempts to achieve sexual autonomy. Emphasis on how the meaning of sexuality changes over time and how women respond to these changes, and their effect on women. Prerequisite: 3 credits in women's studies or social sciences.

WMST 339 [539] REPRODUCTIVE TECHNOLOGIES AND THE FUTURE OF MOTHERHOOD (3) Reproductive science and contraceptive technologies affecting contemporary society, focusing on ethical and legal issues, and changing definitions of motherhood. Prerequisites: two science courses or one math and one science course. GenEd II.A.2.

WMST 341 [533] WOMEN AND AGING (3) American society's view of older women and the impact of stereotypes and images on their self-concepts. Prerequisite: 3 credits in women's studies or social sciences.

WMST 370 [570] TOPICS IN WOMEN'S STUDIES (3) An interdisciplinary examination of selected issues, themes, or topics in women's studies. Variation in content in different semesters. May be repeated for credit provided a different topic is covered. Prerequisite: one women's studies course or consent of instructor.

WMST 481 DIRECTED READINGS FOR HONORS IN WOMEN'S STUDIES (3-4) Reading and research in preparation for the writing of an Honors thesis. Prerequisite: consent of the departmental Honors coordinator.

WMST 485 SEMINAR IN WOMEN'S STUDIES (3) Advanced study in a specialized area of women's studies. May be repeated for a maximum of 6 credits. Prerequisites: WMST 231 or WMST 232 and WMST 337 or equivalent.

WMST 491 [591] DIRECTED READING IN WOMEN'S STUDIES (1-4) Independent reading in women's studies with emphasis on interdisciplinary relationships. Topics selected by student in consultation with the instructor. May be repeated for a maximum of 6 credits. Prerequisites: 15 hours in interdisciplinary or departmental women's studies courses; minimum 3.00 average in women's studies. Special permit only.

WMST 496 [596] INTERNSHIP IN WOMEN'S STUDIES (3 or 6) Field placement for students in agencies or organizations working on projects that serve women. May be repeated for a maximum of 12 credits. Prerequisites: junior/senior standing; WMST 231 or WMST 232; one other women's studies course and consent of instructor.

WMST 499 HONORS THESIS (3) Thesis preparation in a chosen area of specialization. Prerequisite: consent of the departmental Honors coordinator.

WRITING (WRIT)

Upper Division

WRIT 312 HISTORY OF SCIENCE (3) A general overview of the development of scientific knowledge from ancient to modern times. How our modern scientific worldview has been shaped by major periods of scientific development, particularly in the 16th and 17th centuries, involving primarily astronomy and physics, and in the 19th and 20th, including geology, biology, and psychology. Attention will be given to the relations between science and culture, religion, technology, and public policy. Prerequisite: ENGL 102 or ENGL 190. GenEd I.D.

WRIT 354 WRITING FOR CRIMINAL JUSTICE (3) The components of criminal justice system: police, courts, corrections. Theories of criminal justice applied to operations. Does *not* fulfill GenEd I.D. when completed as SOCI 354. Prerequisites: SOCI 101, ENGL 102 or ENGL 190. GenEd I.D.

WRIT 375 PUBLIC ADMINISTRATION (3) The theory and practice of managing the public's business with special emphasis on organizational change, personnel, and budget. Writing for public administration and the use of computer-based data sources. Prerequisite: POSC 103 and ENGL 102 or ENGL 190. GenEd I.D.

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DIRECTIONS TO TOWSON UNIVERSITY

From I-95 (northbound and southbound):

Take the Baltimore Beltway I-695 west (toward Towson). Take exit 25, Charles Street, south. Proceed approximately 1.7 miles. Turn left on Towsontown Boulevard, and proceed to the first stoplight. Turn right on Osler Drive and make the first right to the Enrollment Services Center parking lot.

From I-83 (northbound and southbound):

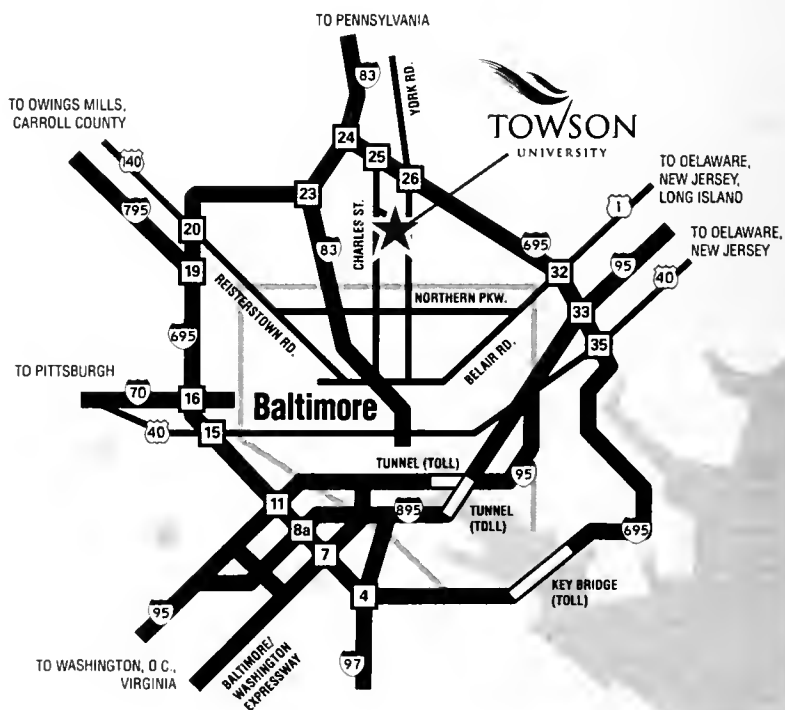
Take the Baltimore Beltway I-695 east (toward Towson). Take exit 25, Charles Street, south. Proceed approximately 1.7 miles. Turn left on Towsontown Boulevard, and proceed to the first stoplight. Turn right on Osler Drive and make the first right to the Enrollment Services Center parking lot.

From I-70 (eastbound):

Take the Baltimore Beltway I-695 north (toward Towson). Take exit 25, Charles Street, south. Proceed approximately 1.7 miles. Turn left on Towsontown Boulevard, and proceed to the first stoplight. Turn right on Osler Drive and make the first right to the Enrollment Services Center parking lot.

From Baltimore (Penn Station):

Proceed north on Charles Street for five miles. Turn right on Towsontown Boulevard, and proceed to the first stoplight. Turn right on Osler Drive and make the first right to the Enrollment Services Center parking lot.





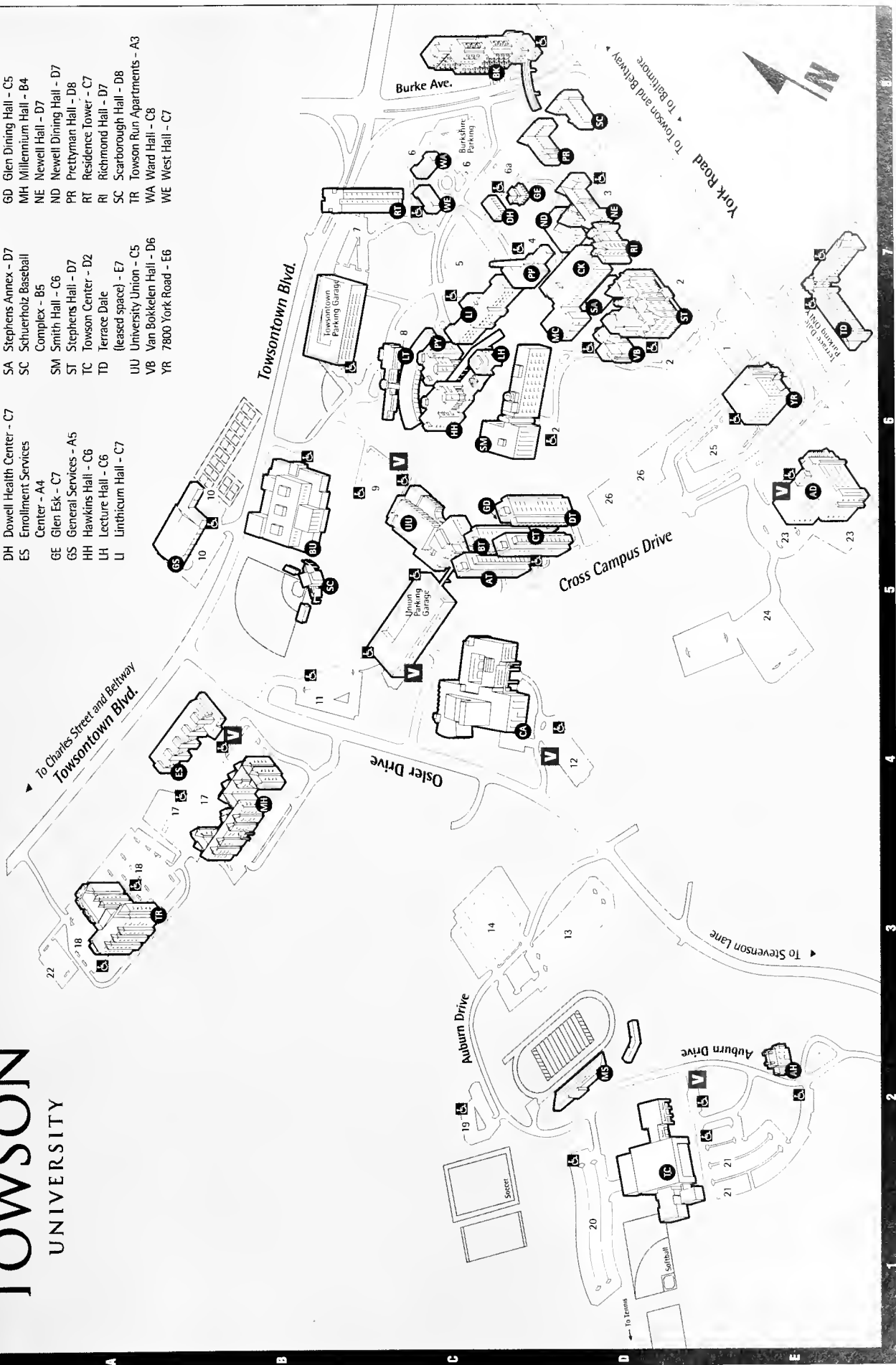
Academic and Administrative Buildings

Residence Buildings

- AD Administration Building - E6
- AH Auburn House - E2
- BU Burdick Hall - B5
- CA Center for the Arts - G4
- CK Cook Library - D7
- DH Dowell Health Center - C7
- ES Enrollment Services Center - A4
- GE Glen Esk - C7
- GS General Services - A5
- HH Hawkins Hall - C6
- LH Lecture Hall - C6
- LI Linthicum Hall - C7
- LT Lida Lee Tall - C6
- MC Media Center - D7
- MS Minnegan Stadium - D2
- PP Power Plant - C7
- PY Psychology Building - C6
- SA Stephens Annex - D7
- SC Schuerholz Baseball Complex - B5
- SM Smith Hall - C6
- ST Stephens Hall - D7
- TC Towson Center - D2
- TD Terrace Dale (leased space) - E7
- UU University Union - C5
- VB Van Bokkelen Hall - D6
- YR 7800 York Road - E6

Residence Buildings

- BK Berkshire Apartments - C8
- AT Glen Complex (A Building) - C5
- BT Glen Complex (B Building) - C5
- CT Glen Complex (C Building) - D5
- DT Glen Complex (D Building) - D5
- GD Glen Dining Hall - C5
- MH Millennium Hall - B4
- NE Newell Hall - D7
- ND Newell Dining Hall - D7
- PR Prettyman Hall - D8
- RT Residence Tower - C7
- RI Richmond Hall - D7
- SC Scarborough Hall - D8
- TR Towson Run Apartments - A3
- WA Ward Hall - C8
- WE West Hall - C7



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